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## DEMANDE INTERNATIONALE PUBLIÉE EN VERTU DU TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT)

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<b>(54) Title:</b> REAGENTS AND METHODS FOR DETECTING GENES RELATED TO MAJOR HISTOCOMPATIBILITY COMPLEX OF DOMESTIC FOWL, SUCH AS CHICKEN <b>(54) Titre:</b> REACTIFS ET METHODES POUR LA DETECTION DE GENES LIES AU COMPLEXE MAJEUR D'HISTOCOMPATIBILITE D'OISEAUX D'ELEVAGE, TELS QUE LE POULET <b>(57) Abstract</b> <p>The invention concerns nucleic acid molecules for detecting the MHC genes involved in phenomena of resistance or proneness to the development of virus-induced tumours. The primers prepared from said molecules can be used in a method for genotyping domestic fowl, characterised in that it consists in: amplifying a nucleic acid sample derived from the animal under study using one or several pairs of primers capable of being specifically hybridised with the nucleic acid of a pleomorphic region of the Rfp-Y or B systems of the MHC of said fowl; detecting the resulting PCR products.</p> <b>(57) Abrégé</b> <p>L'invention vise des molécules d'acides nucléiques permettant de détecter ceux des gènes du CMH impliqués dans les phénomènes de résistance ou de susceptibilité au développement de tumeurs viro-induites. Les amorces élaborées à partir de ces molécules sont utilisables dans une méthode de génotypage d'oiseaux d'élevage et notamment du poulet, caractérisée en ce qu'elle comprend : l'amplification d'un échantillon d'acide nucléique provenant de l'animal à étudier à l'aide d'un ou de plusieurs couples d'amorces capables de s'hybrider spécifiquement avec l'acide nucléique d'une région polymorphe des systèmes Rfp-Y ou B du CMH desdits oiseaux et la détection des produits de PCR obtenus.</p>		

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REACTIFS ET METHODES POUR LA DETECTION DE GENES  
LIES AU COMPLEXE MAJEUR D'HISTOCOMPATIBILITE D'OISEAUX  
D'ELEVAGE, TELS QUE LE POULET

5 L'invention a pour objet la détection de gènes  
liés au complexe majeur d'histocompatibilité (CMH)  
d'oiseaux d'élevage, tels que le poulet. A ce titre, elle  
concerne des molécules d'acides nucléiques permettant de  
détecter ceux des gènes du CMH impliqués dans les  
10 phénomènes de résistance ou de susceptibilité au  
développement de tumeurs viro-induites. L'invention  
concerne également les applications de ces molécules  
d'acides nucléiques, notamment pour le développement de  
tests de génotypage chez les oiseaux d'élevage, en  
15 particulier le poulet, et pour la sélection d'animaux  
d'intérêt.

Les maladies virales infectieuses sont  
redoutées des éleveurs en raison de leur caractère  
20 contagieux qui conduit à des pertes importantes  
d'animaux.

La vaccination a constitué une prophylaxie  
efficace jusqu'à l'émergence de souches hypervirulentes,  
25 rendant nécessaire l'identification des haplotypes  
résistants.

Diverses méthodes ont ainsi été proposées pour  
tenter de sélectionner ceux des animaux qui sont capables  
30 de résister à de telles pathologies et ceux qui sont au  
contraire susceptibles d'être affectés.

Les techniques les plus utilisées en routine  
sont basées sur des polymorphismes sérologiques ou de

type RFLP. Toutefois, ces méthodes ne fournissent pas de connaissances précises sur le phénomène de résistance ou de susceptibilité à la maladie, en particulier par manque de caractère discriminant vis-à-vis des gènes des systèmes B ou Rfp-Y du CMH.

Les travaux des inventeurs sur le séquençage de gènes du CMH a montré la complexité génétique de cette région, ce qui les a conduits à prendre en compte un autre type de polymorphisme, à savoir basé sur la séquence de ces gènes et des régions apparentées, telles que celles de leurs promoteurs et des régions microsatellitaires. Les inventeurs ont ainsi mis au point des moyens pour disposer de molécules oligonucléotidiques hautement spécifiques des polymorphismes observés, permettant d'identifier les parties de gènes, et même les sites impliqués dans le contrôle de la résistance ou de la susceptibilité au développement de tumeurs.

Le caractère spécifique de ces molécules, vis-à-vis d'un gène donné de l'un des systèmes du CMH, en fait des outils discriminants particulièrement fiables pour identifier avec précision la capacité de résistance ou de susceptibilité du poulet étudié, ou d'autres oiseaux, à une infection virale, et pour étudier au niveau moléculaire les séquences du CMH impliquées.

L'invention a donc pour but de fournir des molécules d'acides nucléiques permettant de détecter spécifiquement, chez les oiseaux d'élevage et en particulier chez le poulet, les gènes liés au CMH impliqués dans les phénomènes de résistance ou de susceptibilité au développement de tumeurs viro-induites.

Elle vise également à fournir une méthode et un kit de détection de génotypes de mise en oeuvre aisée en routine.

5 Les molécules d'acides nucléiques de l'invention sont caractérisées en ce qu'il s'agit de molécules, isolées de leur environnement naturel, d'acides nucléiques de gènes codant pour des protéines impliquées dans le contrôle de la résistance ou de la  
10 susceptibilité au développement de tumeurs viro-induites chez les oiseaux d'élevage, telles que celles de la maladie de Marek chez le poulet, avec le cas échéant, les régions qui leur sont attachées, telles que celles du promoteur ou microsatellites. Le terme gène tel  
15 qu'utilisé dans la description et les revendications englobe ces régions.

Ces molécules d'acides nucléiques sont plus spécialement caractérisées en ce qu'elles présentent les  
20 séquences d'acides nucléiques de gènes du système B ou du système Rfp-Y du CMH des oiseaux d'élevage, à l'exception des séquences des gènes de classe II B-L, du gène 17.5, du gène 12.3 et du gène B-FIV de classe I, ou sont capables de s'apparier avec l'un des brins d'un gène  
25 capable de coder pour une protéine telle que définie ci-dessus dans des conditions faiblement stringentes.

L'appariement dans des conditions de faible stringence auquel il est fait référence ci-dessus est  
30 réalisé à température ambiante, dans un milieu 0,1 SSC, avec lavage à température ambiante.

Les gènes de classe II B-L sont décrits dans Immunogenetics 31:179-187, 1990 et Eur. J. Immunol, 1993, 23:1139-1145.

5 Le gène 17.5 appartient à la superfamille des gènes codant pour les lectines et le gène 12.3 à la famille des gènes codant pour des protéines liant la guanine (guanine nucleotide-binding protein). Ce gène est décrit dans Immunogenetics 39:221-229, 1994.

10 Le gène 12.3 est décrit dans P.N.A.S. USA, vol. 86, 4594-4598, juin 1989, Genetics.

15 Le gène B-FIV de classe I est décrit dans Immunogenetics 31:405-409, 1990.

L'invention vise notamment les molécules d'acides nucléiques répondant à ceux des enchaînements de l'un des gènes suivants :

20 . enchaînement du système Rfp-Y

B-FV (figure 1), B-F VI (figure 2) ;

. enchaînement du système B,

25 8.4 génomique (figure 3) ; B-F I (figure 4) ; C12.1 (figure 5) ; DM (figure 6) ; TAP1 (du début de l'exon 2 à l'extrémité 3') (figure 7) ; et TAP2G (figure 8), et autres gènes compris dans la figure 10 et suites 1 à 35.

30 L'étude des séquences d'acides nucléiques des molécules définies plus haut a permis de repérer avec précision les blocs de polymorphismes qui doivent être détectés pour établir un génotypage fiable et précis.

En comparant les séquences de ces blocs, provenant de différents gènes d'un même haplotype ou d'un même gène de différents haplotypes, les inventeurs ont pris en considération les enchaînements divergents et élaboré, pour chaque gène, des oligonucléotides complémentaires de ces enchaînements divergents.

On dispose ainsi d'amorces spécifiques et discriminantes vis-à-vis d'un gène donné du système B ou du système Rfp-Y.

L'invention vise tout spécialement les molécules d'oligonucléotides correspondant à ces enchaînements et comprenant une partie de la région polymorphe des systèmes du CMH du poulet ou autres oiseaux d'élevage.

On rappelle que la région polymorphe peut être dans le gène ou dans une région apparentée telle que les régions microsatellitaires ou celle du promoteur.

Selon un mode de réalisation de l'invention, les polymorphismes sont liés à la fonction des systèmes du CMH.

Il s'agit ainsi avantageusement de molécules correspondant à une partie d'un exon. On citera à titre d'exemple des molécules correspondant à l'exon 2 (domaine  $\alpha$  1) des gènes YF du poulet. Un couple d'amorces approprié est constitué par :

30

Y-F VI  $\alpha$  1 : GGCCCCGGGATGCCGCGGTTC  
Y-F VI  $\alpha$  1, R : ATCCGCTCACCGCCCTGG

Selon un autre mode de réalisation de l'invention, les molécules oligonucléotidiques correspondent à une partie d'une région polymorphe qui n'est pas liée à la fonction des systèmes du CMH. Des régions préférées de ce type sont des microsattellites.

En considérant par exemple, le gène B-FI, des molécules d'oligonucléotides utilisables pour constituer des couples d'amorces correspondent aux enchaînements suivants :

10           B-FI : 5' CCA GCA GTC ACT GCA CAT AT 3'  
          B-FI, R : 5' AGG TGG AGT GCG CAA AGT T 3', et  
          12.1 : 5' ACA CGC AGC AGA ACT TGG TAA 3'  
          12.1 R : 5' GGA AGG AAG ACC TTG GAA 3'

15           Avec les molécules oligonucléotidiques définies ci-dessus et celles élaborées à partir de gènes connus, mais selon la démarche de l'invention, on dispose de jeux d'amorces hautement spécifiques, permettant de déterminer avec précision l'haplotype de l'animal à étudier et de  
20           détecter s'il est résistant au développement de tumeurs viro-induites, ou au contraire susceptible d'être affecté.

25           L'invention vise donc également une méthode de génotypage d'oiseaux d'élevage et notamment du poulet.

Cette méthode est caractérisée en ce qu'elle comprend

30           - l'amplification d'un échantillon d'acide nucléique provenant de l'animal à étudier à l'aide d'un ou de plusieurs couples d'amorces capables de s'hybrider spécifiquement avec l'acide nucléique d'une région polymorphe des systèmes Rfp-Y ou B du CMH desdits oiseaux,

et

- la détection des produits de PCR obtenus.

Une simple comparaison des résultats obtenus avec un référentiel établi au préalable permet de  
5 déterminer rapidement l'haplotype de l'animal.

L'échantillon d'acide nucléique est constitué en particulier par de l'ADN génomique extrait de matériel biologique de l'animal à étudier ou par ce matériel même, en particulier par du sang de l'animal. Il peut s'agir en  
10 variante d'ADNc, d'ARN ou encore de PNA (polypeptides nucleic acids).

Les amorces sont élaborées à partir des molécules oligonucléotidiques définies ci-dessus et,  
15 d'une manière générale, de tout gène (et région apparentée) codant pour une protéine impliquée dans le contrôle de la résistance ou de la susceptibilité aux tumeurs viro-induites chez les oiseaux d'élevage et notamment de poulet, en particulier les gènes B-L de  
20 classe II, 17.5, 12.3 et B-FIV de classe I.

Il s'agit par exemple d'amorces de régions microsatellitaires permettant de détecter des haplotypes du complexe B, telles que celles élaborées à partir du gène B-FI, et évoquées ci-dessus, ou d'amorces permettant  
25 de détecter des haplotypes du système RFp-Y, et élaborées à partir du gène 17.5, comme le couple :

17.52 : CAG GAT CTG CAC TGG CCA ATA

30 17.5, R1 : GAA TGG CGG TGC TTC CGT GCC TGG

La détection des produits de PCR est effectuée selon les techniques classiques. Ces techniques

comprennent le séquençage, l'électrophorèse, les hybridations avec analyse SSOP ou SSCP.

5 Cette technique sera avantageusement choisie selon la nature du polymorphisme impliqué. Ainsi, dans le cas de polymorphisme de type microsatellite, on détectera avec avantage les produits de PCR selon leur taille en ayant recours aux techniques d'électrophorèse.

10 Lorsque le polymorphisme ne concerne que quelques nucléotides, voire un seul nucléotide, on aura plus spécialement recours, aux fins de différenciation des haplotypes de produits de PCR, aux techniques d'hybridation (analyse sur membrane à l'aide de sondes  
15 spécifiques des séquences d'haplotypes, SSOP ou Sequence Specific Oligonucleotide Probe), de migration différentielle des échantillons dénaturés (SSCP ou Single Strand Conformational Polymorphism), ou de séquençage. De manière générale, cette dernière technique est préférée  
20 compte tenu de la simplicité de sa réalisation.

L'invention fournit ainsi une technique simple et rapide d'établissement du profil génétique d'un grand nombre d'animaux à étudier, ce qui permet de déterminer  
25 les haplotypes et de sélectionner ceux d'intérêt en vue d'un élevage.

De plus, chaque type de gène pouvant être discriminé en utilisant des amorces présentant la  
30 spécificité requise et son appartenance au système B ou Rfp-Y pouvant être établie, il est possible d'effectuer des études fondamentales plus complètes.

L'invention vise également un coffret ou trousse pour détecter le génotype du poulet ou autre oiseau d'élevage selon la méthode définie ci-dessus.

5            Ces coffrets ou trousse sont caractérisés en ce qu'ils comportent les réactifs nécessaires pour la réalisation d'au moins une PCR et du test de révélation.

10           En particulier, ils comportent les amorces pour la PCR, un témoin positif de la réaction, ainsi qu'une notice d'utilisation.

15           Les amorces se présentent sous forme lyophilisée ou en solution ou, selon le mode de détection, sur un support. Le support peut être, de manière classique, une plaque multipuits ou se présenter sous forme de puces à ADN.

20           L'invention vise en outre un système expérimental qui permet d'étudier la résistance au développement tumoral chez le poulet.

25           Il s'agit de lignées d'animaux qui ont été triées génétiquement sur leurs caractéristiques du CMH. En fonction de ces caractéristiques, les lignées sont soit résistantes, soit sensibles vis-à-vis des tumeurs induites par des virus, comme le virus de la maladie de Marek. Cette sélection génétique, qui s'est dans un premier temps effectuée sur des critères sérologiques, a  
30           été ensuite poursuivie sur la base de l'étude du polymorphisme des gènes du CMH. Il s'agit d'un matériel génétique qui est parfaitement défini d'un point moléculaire, et constitue un outil précieux pour l'étude du polymorphisme des séquences de type microsatellite. Ce

matériel, ainsi que le produit du croisement entre certaines des lignées entre elles, a été utilisé pour déterminer les séquences microsatellites du CMH qui sont polymorphes et pour évaluer si ce polymorphisme peut être  
5 corrélé avec les données de typage déjà disponibles pour ces lignées.

D'autres caractéristiques et avantages de l'invention sont exposés dans les exemples qui suivent, dans lesquels il est fait référence à la figure 9  
10 représentant une photo d'électrophorèse de produits de PCR illustrant le test de génotypage de l'invention. On rappelle que les figures 1 à 8, déjà évoquées ci-dessus, illustrent les séquences de gènes selon l'invention.

15 Exemple :

Etude d'haplotypes Rfp-Y du poulet à l'aide d'amorces microsatellitaires.

20 - amplification avec le Kit Expand™ High Fidelity PCR System

. Avec les amorces 17.5 R1/17.52

25 ADN génomique : 1 µg

Oligos prendre : 0,3 µM

dNTP : 8 µl

qsp H<sub>2</sub>O 50 µl

30 On ajoute 50 µl de Mix 2 en mélangeant.

Mix 2 : 0,75 µl d'enzyme

10 µl TP10X avec MgCl<sub>2</sub>

qsp H<sub>2</sub>O 50 µl

Programme d'amplification :

30 Cycles

5

94°C	94°C	65°C	72°C	4°C
2'	30''	1'	1'	∞

. Avec B-FI/B-FI, R :

10

ADN génomique : 1 µg

Oligos prendre : 0,3 µM

dNTP : 8 µl

qsp H<sub>2</sub>O 50 µl

15

et ajouter 50 µl de Mix 2 en mélangeant.

Programme d'amplification :

30 Cycles

20

94°C	94°C	60°C	72°C	4°C
2'	30''	1'	1'	∞

25 - révélation par électrophorèse sur gel  
d'agarose ou par séquençage.

30 Le test a été appliqué à 9 haplotypes de  
poulet, sélectionnés sérologiquement pour le complexe B.  
Il s'agit des haplotypes B4, B5, B7, B12, B13, B14, B15,  
B21 et d'un haplotype inconnu BX.

Plusieurs individus d'un même type ont été  
étudiés pour B12 (6 individus), B13 (3 individus), B14 (4

individus), B21 (4 individus) et un seul individu pour les autres haplotypes.

5 La figure 9 donne une photo d'électrophorèse sur gel d'agarose à 1 % des produits de PCR obtenus à l'issue de l'étape d'amplification.

10 Les pistes 1 et 27 correspondent aux marqueurs de taille et les pistes (2 à 25) aux produits de PCR des haplotypes suivants : piste 2 : B4 ; piste 4 : B5 ; piste 5 : B7 ; pistes 6 à 11 : B12 ; pistes 12, 13, 14 : B13 ; pistes 15, 16, 17, 18 : B14 ; piste 19 : B15 ; pistes 20, 21, 23, 24 : B21 ; piste 25 : BX (absence de détection pour les pistes 3 et 22).

15 L'examen de cette figure montre que les individus qui ont l'haplotype B12 donnent une même bande et sont donc bien homogènes. La même observation s'applique aux individus B14. En revanche, avec B21, on constate que les profils sont différents, ce qui démontre  
20 l'inefficacité de l'approche sérologique. Compte-tenu de la position de la bande de BX, on détermine qu'il s'agit d'un haplotype B4.

L'application pratique de cette méthode revient à soumettre les individus naturellement résistants au  
25 protocole décrit ci-dessus en prenant en compte les deux systèmes Rfp-Y et B du CMH et à ne sélectionner parmi des animaux à tester que ceux dont le profil correspond à celui des animaux résistants.

30 L'invention fournit ainsi les moyens de vérifier l'homogénéité des animaux et d'effectuer des sélections rigoureuses en prenant en compte chaque système du CMH, et dans ces systèmes les gènes recherchés.

## REVENDEICATIONS

1/ Molécules d'acides nucléiques isolées de leur environnement naturel, de gènes codant pour des protéines impliquées dans le contrôle de la résistance ou de la susceptibilité au développement de tumeurs chez le poulet, telles que celles de la maladie de Marek, et de régions apparentées auxdits gènes caractérisées en ce qu'elles présentent les séquences d'acides nucléiques de gènes du système B ou du système Rfp-Y, correspondant au complexe majeur d'histocompatibilité des oiseaux d'élevage à l'exception des séquences des gènes de classe II B-L, du gène 17.5, du gène 12.3 et du gène B-FIV de classe I, ou sont capables de s'apparier avec l'un des brins d'un gène capable de coder pour une protéine telle que définie ci-dessus dans des conditions faiblement stringentes.

2/ Molécules d'acides nucléiques selon la revendication 1, caractérisées en ce qu'elles répondent à l'un des enchaînements suivants :

. enchaînement du système Rfp-Y

B-FV (figure 1), B-FVI (figure 2) ;

. enchaînement du système B,

8.4 génomique (figure 3) ; B-FI (figure 4) ; C121 (figure 5), DM (figure 6), TAP1 (du début de l'exon 2 à l'extrémité 3') (figure 7), et TAP2G (figure 8).

3/ Molécules d'acides nucléiques selon la revendication 1 ou 2, caractérisées en ce qu'elles correspondent à une partie des séquences définies dans les revendications 1 ou 2, cette partie étant spécifique

et discriminante pour un gène donné des systèmes B et Rfp-Y.

5 4/ Molécules d'acides nucléiques selon la revendication 3, caractérisées en ce qu'il s'agit de molécules d'oligonucléotides correspondant à une partie de région polymorphe des systèmes du complexe majeur d'histocompatibilité du poulet.

10 5/ Molécules d'acides nucléiques selon la revendication 4, caractérisées en ce qu'il s'agit de molécules d'oligonucléotides correspondant à une partie d'exon.

15 6/ Molécules d'acides nucléiques selon la revendication 4, caractérisées en ce qu'il s'agit de molécules d'oligonucléotides correspondant à une partie de région polymorphe qui n'est pas liée à la fonction des systèmes du CMH, telle que les régions  
20 microsatellitaires.

7/ Méthode de génotypage d'oiseaux d'élevage et notamment du poulet, caractérisée en ce qu'elle comprend

25 - l'amplification d'un échantillon d'acide nucléique provenant de l'animal à étudier à l'aide d'un ou de plusieurs couples d'amorces capables de s'hybrider spécifiquement avec l'acide nucléique d'une région polymorphe des systèmes Rfp-Y ou B du CMH desdits  
30 oiseaux,

et

- la détection des produits de PCR obtenus.

8/ Méthode selon la revendication 7, caractérisée en ce que les amorces sont élaborées à partir des molécules selon l'une quelconque des revendications 3 à 6, et de tout gène (et région apparentée) codant pour une protéine impliquée dans le contrôle de la résistance ou de la susceptibilité aux tumeurs viro-induites chez les oiseaux d'élevage et notamment de poulet, particulièrement les gènes de classe II B-L, 17.5, 12.3 et B-FIV.

10

9/ Méthode selon la revendication 7 ou 8, caractérisée en ce que la détection des produits de PCR est effectuée par séquençage.

15

10/ Coffret ou trousse pour le génotypage d'oiseaux d'élevages et notamment du poulet, caractérisé en ce qu'ils comportent les réactifs nécessaires pour la réalisation d'au moins une PCR et du test de révélation, selon la méthode de la revendication 8 ou 9, en particulier les amorces élaborées à partir des molécules d'acides nucléiques selon l'une quelconque des revendications 3 à 6.

20

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Figure 1BF V

## B-F V

GGC CCC GGG ATG CCG CGG TTC GTG ATC GTC GGG TAC GTG GAC GAC AAA ATC TTC GGT  
ACC TAC AAC AGT AAG AGC AGG ACT GCA CAG CCT ATC GTG GAG ATG CTG CCG CAG GAG  
GAC CAG GAG CAC TGG GAC ACG CAG ACC CAG AAG GCG CAG GGC GGT GAG CCG GAT TTT  
GAC TGG AAC CTG AAC AGG CTG CCG GAA CGC TAC AAC AAA AGT AAA GGT GAG CGT GGG  
GGA AGC TGC AGC GCG ATG CGT CTG GGA CAG GAG CTC TGT GTG CCG AGG GTG TCC GCC  
AGC CCC ACT GAG GTG TGG CCG TGC CCC ACG CCC AGC TGT GCT GGG CCG TCC ATG TGT  
GGT GGC ACT GTC CCT GGG CCG CCC TGC TCC TGC GCC CAC CCA CCC CAC CCC AGC CTC  
ATG GCA CTC GCG GTG CCC CAC AGC CCT AGA AGC CTC TCA CCT ATT ACT CTG GCT GTG  
CCT CAG GGT CTC ACA CGA TGC AGA TGA TGT TTG GCT GTG ACA TCC TGG AGG ACG GCA  
GCA TCC GAG GGT ACG ATC AGT ATG CAT TTG ATG GGA GGG ACT TCC TTG CCT TTG ATA  
TGG ACA CGA TGA CGT TCA CCG CGG CGG ATC CAG TGG CTG AAA TCA CCA AGA GGA GAT  
GGG AGA CAG AAG GGA CGT ATG CTG AGA GAT GGA AGC ATG AGC TGG GGA CTG TCT GTG  
TTC AGA ACT TGA GGA GAT ACC TGG AGC ATG GGA AGG CAG CGC TGA AAA GGA GAG GTG  
AGG ATG GGA GGG GGA CGT GGG GCT GGG CTG GGT GTG GGG CAG AGG CTC AGT GTG GGG  
TGC TCA GCC CGG CCC ACA ACG TCA CCC ACC TGC AGT GCA GCC CGA GGT GCG AGT GTG  
GGG GAA GGA GGC CGA TGG GAT CCT GAC CTT GTC CTG CCA CGC TCA CGG CTT CTA CCC  
GCG GCC CAT CAC CAT CAG CTG GAT GAA GGA CGG CAT GGT CCG GGA CCA GGA GAC CCG  
CTG GGG GGG CAT CGT GCC CAA CAG CGA TGG CAC CTA CCA CGC CTC GGC TGC CAT TGA  
TGT GCT GCC GGA GGA TGG GGA CAA GTA TTG GTG CCG CGT GGA GCA CGC CAG CCT GCC  
CCA GCC TGG TCT CTT CTC ATG GGG TGA GCT GGC AGC GTG GGG CAC GTG GGG TTG GGA  
TTC GCA GGC TGC CCC TTC CTT TAC TGA CAA CGG CGC TCT CCT CCA GAG CCG CAG CCC  
AAC CTG ATT CCC ATT GTG GCA GGG GCG GTC GTT GCC ATC GTG GCT GTC ATC GCT GCG  
GTC GTT GGA TT

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Figure 2B-FVI

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GGC CCC GGG ATG CCG CGG TTC GTG ATC GTC GGG TAC GTG GAC GAC AAA ATC TTC GGT
ATC TAC GAC AGT AAG AGC AGG ACT GCA CAG CCC ATC GTG GAG ATG CTG CCG CAG GAG
GAC CAG GAG CAC TGG GAC GCG CAG ACC CAG AAG GCC CAG GGC GGT GAG CGG GAT TTT
GAC TGG TTC CTG AGC AGG CTG CCG GAA CGC TAC AAC AAA AGT GGA GGT GAG TGT GGG
GGA AGC TGC AGC GCG ATG CGT CTG GGA CAG GAG CTC TGT GTG CCG AGG GTG TCC GCC
AGC CCC ACT GAG GTG TGG CCA TGC CCC ACG CCC AGC TGT GCT GGG CCG TCC ATG TGT
GGT GGC ACT GTC TCT GGG CTG CCC TGC TCC TGC GCC CAC CCA CCC CAC CCC AGC CTC
ATG GCA CTC GCG GTG CCC CAC AGC CCA AGA AGC CTC TCA CCT ATC ACT CTG ACT GTG
CCT CAG GGT CTC ACA CGA TGC AGA TGA TGA TCG GCT GTG ACA TCC TGG AGG ACG GCA
GCA TCC GAG GGT ACG ATC AGT ATG CAT TTG ATG GGA GGG ACT TCC TTG CCT TTG ATA
TGG ACA CGA TGA CGT TCA CCG CGG CGG ATC CAG TGG CAG AAA TCA CCA AGA GGA GAT
GGG AGA CAG AAG GGA CGT ATG CTG AGA GAT GGA AGC ATG AGC TGG GGA CTG TCT GCG
TTC AGA ACT TGA GGA GAT ACC TGG AGC ATG GGA AGG CGG CAG TGA AAA GGA GAG GTG
AGA ATG GGA GGG AGA CGT GGG GCT GGG CTG GGT GTG GGG CAG GGG CTC AGT GTG GGG
TGC TCA GCC CGG CCC ACA ACA TCA ACC ACC TGC AGT GCA GCC CGA GGT GCG AGT GTG
GGG GAA GGA GGC CGA TGG GAT CCT GAC CTT GTC CTG CCA CGC TCA CGG CTT CTA CCC
GCG GCG CAT CGC CAT CAG CTG GAT GAA GGA CAG CAT GGT CCA GGA CCA GGA GAC CCG
CTG GGG GGG CAT CGT GCC CAA TAG GGA TGG CAC TTA CCA CAC TTC GGC TGC CAT TGA
TGT GCT GCC GGA GGA TAG GGA CAA GTA TCG GTG CCG CGT GGA GCA CGC CAG CCT GCC
CCA GCC TGG CCT CTT CTC TTG GGG TAA GCC TGG CAG CGT GGG ATG TGT GGA GTT GGG
ATT TGG GGG CCG CCC CTT TGT TTA CTG ACA ACG GTG CTC TCC CCC AGA GCC GCA GCC
CAA CCT GAT CCC CAT TGA GGC TTG GCT GGT CGT CCC CTT GGT GGT TCT CTT CGT TGC
TTT GAT TGC ATT

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GGA TCC GGG GTG GGT GGC AGT GGC TGT GTT TAG GTC GGC CTG TGG GGA AAG  
 CCG GGT TGT CCC ACC CAT GTC CCC TCT TCC AAC ACT GTT CCT GAA TGA GTT  
 TTC CCT CTC CGA CCC TTT TTT TAA TGG GTT TCA GGG ATT TAA AAT TAA TAT  
 TGA CGA AGT GAC GGA GGG GGT GGG GCC ACA GCG GAG CCG AAA GCG AAA GCA  
 GCG GAG AGC AAT GGC TGC GGG GCT GCG GCT GCT GCT GGC GGG TGA GAC CCG  
 ACC CCC CCC GGC CCC CTC ATG TCC CAC CAC CCA TAT CGC CCC CCC CCC TCC  
 TCC TCG CCC CAT GCT GAG CCT CTC CCC CAC CCC CAG GGC TCT GCT GGT CCC  
 AAT TTA GGG TGG AAG ACG CCG CCT CCC CTC CGC CCC CCC CCG CTC CGG TGC  
 GCT GCG CGC TGC TGG AGG GGG TGG GGC GCG GGG GAG GGC TGC CGG GGG GGG  
 GCA ATG CCC GTC CTG CAC TGC TGC GCT TTG GGG GGG ACG CGG AGA CCC CTC  
 CCG AAC CCG GCC CGG AGC CCG AAG TCA CCT TCA ATG TCA GCG GTA CGT GGG  
 GAC CCC CGT CAC TGT GCT GTG CGC CTC CTT TAT CCC CAC CCC CCT CCA TGT  
 CCC CAT CTC CTT TAC TTC CCA CAA TGC TCC CAT CCC CCC CAG AAT GTC CCC  
 AGA GTC CCC CAA ACC CCC ATG ACC CCC CCC ACG ACC CCT GGT TCC CAT TAC  
 CCT CTC ACG TCC CCC AGT GTC CCC AAG ATT CCC ATT ACT CCC CGT ATC CCC  
 ATT ATC CCC AAA ATG TCC CCC AAT GTT CCC ATC ACC CCA ATG TTC CCA AGG  
 TCC CTA TCG CTC CTC AAT GTC GCT ATG ATC CCT ATT CCC AAA ATG TCA CCA  
 ATG TCC CCA AAA TCC CCA TTA TCT CCC ACC TCT CCA AAG TCC CCA AGA TCC  
 CCA TTA CCC CCA ATA TCC TCA TTA CAC CCC AAA TGT CCC CAA TGT CCC CTC  
 CAT GTC CCC CAG AGA CCC CAT TAG CCC CAA TAG CTC CCA AAC TGT CCC CAG  
 TGT CCC CAT TAA CCC CAA AAT GAC CCC ATT ACG CCC CAC ACC CCT CCC AAC  
 CCC ATG CCC TCA GAC CCC TTC ATC CCT CTC ACT CCT CTC TCC CTC GCA GAC  
 CCC TGG GGG ACT CTA GCC CCA CTC GGG TCC CCC CCC GGA CTC CCC CCA GCT  
 GCG AAC TGA ACC CCA CGA ACC CCC AGA CCG GCT CTG ACC CAT GGA GCC GCC  
 CTC TGC ACC CCG ACG CCC GCA GCC CCC CAA CCG CGG GGG GGC AGT GGT GGG  
 TGG CGG CGG TGG GGA CCC CGC AGT ACG GTG TCA CTG CGC TGC TGC AGG GGG  
 GGA TGG GCA CAG AAG GAA CCA TCA CTG CCG CCG GTA AGG GGG AAC TTG GGG  
 TGT CCC TCC CTG GGT GTC CCC ATG TCC CTA TCT GTC CCC CAG TGT GTC CCC  
 ATT TGT CCC CTC CTC TGC ATG TGT CCC AAT GTC TCC ATA CAT CCC ATA ATA  
 ACC ATA TGT CCC CAC TCA TCC CCA TAT TCC CCA TGT GTC CCC ATA TCC CCA  
 CAC ATC CCA GTG TGC CCC AAC ACA TCC CCA TGT GCC CCC CCC CAT GCA TCA  
 CTA CCA TCC CCC TAT CCC CCA AGT GTC CCT GTG TCC CTG CAG TTT CTC CCT  
 GTC CTC ATG TGT TCC CAT GTC TCC ATG TCA CTG TGT CCC CGT GTC CCC ACA  
 CAT CAC CAT GCC CCC CAC TGC AGC GCC CCC ATG TCC CTT CAC CTC TCC ATG  
 TCC CCC AGT GTC CCC TAT CCC CTC ATT GTC CCC ATG CCC CCT CAC CTC CCC  
 GTG TCC CCC GTG TCC CTA TGT TCC CCT GGT GTT TCC ATG TCC CCT CAT GCC  
 CCC ATG TCC CCT CAT GTC CCC ATA TCC CCC AGT GTC CCC ATG TCC CTT CAC  
 CTC CCC ATG TCC CCC AAT ATT CCC ATA TCC CCT CAC CTG CCC ATT TCC CCC  
 CGA TGT TCC CAT GTC CCC GCA CCT CCC CAT GTC TTC ACA GTG GCC CTG GCG  
 GTG CTC ACC CAC ACC CCG ACC CTC CGG GCC CGT GTG GGG TCC CCC ATC CAC  
 CTG CAC TGC GCC TTC GCT GCC CCC CCA TCC TCC TTT GTC CTC GAG TGG CGT  
 CAC CAG AAC AGG GGT GCG GGG AGG GTC CTG CTG GCC TAT GAC AGT TCC ACC  
 GCC CGC GCC CCC CGC GCC CAC CCC GGG GCC GAA CTG CTG CTG GGG ACA CGG  
 GAT GGG GAC GGG GTG ACA GCG GTG ACA CTG CGG CTG GCG CGG CCA TCA CCG  
 GGG GAT GAG GGC ACC TAC ATC TGC TCC GTG TTC CTG CCC CAC GGG CAC ACA  
 CAG ACA GTG CTG CAG CTC CAC GTC TTT GGT GCG TCC ATG TGG GGC AGG CGG  
 TGT TCC TAT GGG GTG TGG GGT TGG GCA GTG TTC CTA CGG AGT GTG TAT GAC  
 TGG GTG GTA TTC CTA TTG GTC ACA TAG GAC ATA TGG GAG CAG GCG GTA TTC  
 CTA TGG GGC TGT AGG GTG GAT CCG ACT GGG TGA TAT TCC TGT GGG GGC TGT

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AGG GTG GAT GGG ACT GGG TGG TAT TCC TAT GGA GGC TAT AGG GTG GAT GGG  
ACC GGG TGG TAT TCC TAT GAG GAC TAT AGG ATG GGG TGG CAT CAT CCC ATA  
GTT CAC CTG TAG GTT TAT AGG GGG GGA TGA GCC CTA TAC AGC GTA TGG GCT  
ATA TGG ACC GAT GTC CCC CCA CAT GTC TCC AGA GCC CCC CAA GGT GAC GCT  
GTC CCC GAA GAA CCTGGT GGT GGC CCC GGG GAC GTC AGC AGA GCT ACG CTG  
CCA GTC TGG CTT CTA CCC CTT GGA TGT GAC GGT GAC GTG GCA GCG CCG CGC  
CGG GGG CTC GGG GAC ATC ACA GTC ACC CAG GGA CAC AGT GAT GGA CAG CTG  
GAC TTC AGG TCA CCG CCA GGC AGC CGA TGG AAC CTA CAG CCG GAC GGC GGC  
AGC ACG GCT GAT CCC CGC ACG CCC CCA ACA CCA CGG GGA CAT CTA CAG CTG  
CGT TGT CAC CCA CAC TGC ACT GGC CAA ACC AAT GCG TGT CTC CGT CCG ACT  
GCT CCT GGC TGG TGA GGG GGG ATG TGG GGA TAT TGG AAA CAC GTG GAG GTA  
TTG GGA TGC TGG GAC CAT GGT TAG GAG GGT CTG AGG GAC ATC AGG ACC ATG  
GCC TGG GAC AAT GGG AGA TCA TGG ATT TGG GTT GGG GAC CCC ACC CAG GAT  
GGT GAC ACT GTG CTT AGG GCT GTC GTT GTC CCC ACA GGC ACC GAG GGA CCG  
CAC CTG GAG GAC ATC ACG GGG CTC TTC TTG GTG GCC TTT GTC CTC TGT GGC  
CTC ATC CGT TGG CTC TAC CCT AAA GGT GAG TGC TGT TCC CAC ATC CCA GTG  
CCC CCA CAT CCT CAC ACC CCA ATA TCC CAA TGG CCC ATG TCC CCA TGA GCA  
ATG TCA CTA TGT CCC AAT ATC CTA ATG ATG CTG TGT ACC CAT GTG TCC CCA  
TGT CCC TAT TCC ACT CAC TCT TTC TCT CCC CTC AGC TGC ACG ACC CAA AGA  
GGA AAC CAA GGT AAC ATT CCT CCC CAA AAA CCC CAA ATC CCC CAA AAC ACC  
TCC AAG CAC CCC AAA ACT CAC CAT TCT CAT TCC CCC CCC CCC CCC CCC  
CCC CAT GCC TTG CAG AAA TCG CAG TGA CCT CCA CTC CAG CTC TCA GCA CCT  
CAG CTC CAG ATA AAG AGT TTT TCA CCC CAA AGT TAT ATA TGT GTG GTG GTG  
TCC CCA CAG ATC TGG GTG CAG AGG GGG GAG AAA TGG GGG CAA ACT GGG AGC  
AGT GGG AGC AGT GGG AGG AAG TCC TGG GTT GGT GAG GCA GAT GAG TGG CAC  
CTG GGG ACA TCT GGG TGC CAT CCC TTG TGG ACA TCT GGG TGA CAC TGC ATT  
GCC TTG GGT GAC ATT GGG ATC CTC AGG TCA CTG CAG

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Figure 4

B-FI

GT CGA CGGGAT CTGGATAGGT CGT CAGT CAT CCTAATT AAGGAGGGA CAA CAGTGAATGGG  
 GAGGAGCCGATGACT CAGGCTGGGAGTGGTGAT CCCAGAGGTTT CCT CTGCTGT CAGTGAC  
 T CCGTGCTTT CGCTTT CGCTT CA CAA CCTGAGGGAG CG CATT CTGCCTGG CG CCCGATGAC  
 GT CA CATAAA CCCCCGACTG CCATTGG CGGAGAGG CGA CGGAGGAG CCAATGGGGG CG CGG  
 GG CGGGG CGGAGGAGTAGGAAAAG CTGAAGGACGTG CG CTGGGTG CGG CGGA CTTGAGAGT  
 G CAG CGGTGTGAGGCGATGGGG CCGTG CGGGG CG CTGGG CCTGGGG CTG CTG CT CG CCG CC  
 GTGTG CGGGG CGG CGG CCGGTGAGTG CGG CCGGA CCGGGA CCCCT CCCCG CCTGTAA CCCC  
 A CCCC GGG CTGTG CCGTGGGAT CCT CAGA CCCCCA CCG CGG CT CACGG CCT CG CTG CCG  
 T CCG CCCCCG CAGAG CT CCATT CCCTG CGGTACGT CCATA CGG CGATGACGGAT CCCGG CC  
 CCGGG CTG CCGTGGTT CGTGGACGTGGGGTA CGTGGACGGGGAA CT CTT CGTG CACTA CAA  
 CAG CACCG CG CGGAGGTA CGTG CCCCCA CCGAGTGGATGG CGG CCAA CACGGA C CAG CAG  
 TACTGGGATGGA CAGACG CAGAT CGGA CAGGG CAATGAG CGGAGTGTGGAAGTGAG CTTGA  
 A CACACTG CAGGAACGATA CAA CCAGA CCGG CGGTGAG CACGG CCGGGG CCG CGG CT CCGT  
 GGGTGTGGGATGGG CT CCATGG CG CAGTG CCG CCA CAC CCCCCAGG CCTGG CCCTG CCGG  
 G CGG CACCGT CCGGGG CTG CCGT CACAG CCCCCA CCG CG CT CGGGGTG CCG CGT CCGGGG  
 GGA CCCCCA CCGAT CCCCCG CTG CAGTGGGAG CCGGAG CCGGAGGGG CCCCT CACCCCCT  
 GCCCG CTGTGTTT CAGGGT CT CAAA CGGTG CAG CTGATGTACGG CTGTGACAT CCT CGAG  
 GATGG CACCAT CCGGGGGTAT CAT CAGA CAG CCA CAGATGGGAGAGACTT CATTG CCTT CG  
 ACAAAGG CACGATGACGTT CACTG CGG CAGTT CCAGAGG CAGGTT CCA CCAAGAGGAAAT  
 GGGAGGAAGGAGGTGTTG CTGAGAGGTGGAAGAGTTA CCTGGAGGAAA CCTG CGTGGAGGG  
 GCTG CGGAGATATGTGGAATA CGGGAAGG CTGAG CTGGG CAGGAGAGGTGAG CGGGGT CGG  
 GGTGGGGGGGGGGGGGGG CGGA CG CAGTGTGGGGT CGGACGTGGGG CGGGGG CT CAT CGTG  
 GGGAG CT CAG CCGG CCCT CACTG CCG CCA CCA CAGAG CGG CCTGAGGTG CAGTGTGG  
 GGAAGGAGG CTGACGGGAT CCTGACCTTGT CCTG CCG CG CT CACGG CTT CTA CCG CGG C  
 CCAT CG CCGT CAG CTGG CTGAAGGA CGG CG CGGTG CGGGG CAGGACG CCCAGT CGGGGGG  
 CAT CGTG CCAACGG CGA CGG CACCTA CCA CACCTGGGT CACCAT CGATG CG CAG CCGGGG  
 GACGGGGA CAAGTAC CAGTG CCG CGTGGAG CACG CCAG CCTG CCCCAG CCGG CCT CTACT  
 CGTGGGGT GAGTGAGGGGATGTGGGG CTGGGGG CTG CGGG CTG CCCCTT CCCCTG CTGAT  
 GG CCCCCG CT CT CCCCCAGAG CCG CCA CAG CCA CCA CCGTGGTG CCCAT CGTGG CGGGGGTGGC  
 CGT CG CCATTGTGG CCAT CG CCAT CGTGGT TGGTGT TGGATT CAT CAT CTA CAGACG CCAC  
 GCAGGTAAAAG CAGAGGGGTG CAGG CGGG CAGTGGGGG CTGTAGGGGGAT CTGGGT CCCCC  
 CTTGGGAG CCCCCAACCTGG CTGTGATGTGAACCTGTGATGAAG CAT CT CT CTGT CTG CAG  
 GGAAGAAGGGGAAGGG CTA CAA CAT CG CG CCGGTGAGT GATGAGGG CAG CG CTGT CCCCC  
 ACCT CTG CCCAGTG CCAGGGTGGT CCTGGGGT CCCTG CTTT CT CCAAGGTA CCGATT CCT  
 GGTG CT TGGGG CTG CT CCATG CCCCATAGGGAG CACAGGG CTGGAT CT CACAG CTGTT CCT  
 CCCT TATAGA CAGGAAGGTGGAT CCAG CAG CT CGAG CACAGGTG CGGTGTGGGG CTGTGG  
 GTTGGGAGGGGT CCGTGTG CT CT CTGTGTTA CTG CCAAGGG CTGGG CTATG CTGGGG CT CT  
 GCGGGGAGAC CCCCCGAG CAGAGGGT TGGGATGTGAACCTGG CCGGCTGGGACAT CAT CCC  
 TT CT CAT CCA CAGGGAG CAA CCCCCG CCAT CTGAGTG CTGTG CTT CAG CCTG CAAGGAG CC  
 AACAGT CCA CACAG CATT TGGGGT CGGTGATGGA CACAG CCCCCAT CCT CCTGACCT CT CA  
 CAT CT CATT CTG CTT CCTATG CTGA CTGTTATG CTTTG CCTG CACTG CTT CCTGTGAAATA  
 AAATGATGGG CCAAT CTGTG CT CAG CTTG CCTG CATT CTG CACAGTG CTGTGGTTGGGGAT  
 GGGGTGGGTGAGAGGACCGTGT CCAGTTTGG CTG CT CAGGGTG CAGATGTGG CCCTGTG CT  
 GAGTACCACTG CCCT CCCCCCTAT CTG CCTG CTG CT CACT CCCCCCT CTGTAC CCCCCAT  
 CCCTT CT CACCT CT CCT CTGTGAAC CCGATG CTGGTGGTTG CTTG CT CCCTGT CCTGG CAG  
 AACT CT CATT TT CCAATGG CAT CCCTGGGTGT TGGGATGTGGT CT CCTTGGT CCT CCCCC  
 CAG CAGT CACTG CACATAT CCCCCCA CTT CCCCCCTAGGT TGTGT CCA CAG CACT CCT  
 ATTT CCCT CT CCCCCCCCCCCCCCCCCCCCCCG CCGCAT CAG CTG CCT CTG CAAT CCT CAC  
 CCTTG CCA CAC CAA CTTTG CG CACT CCACCT CCCT CAT CCG CCCTT CCCCCAG CT CT C  
 CTGT CCCTG CTGG CCCCCCT CCCCCCCCCCA TTGTACCTA CACCCAAATAAATATGTTT  
 GTT CTG CTG CCCT CCG CGGT CT CTGGTTTATTT CCCCCGATTGTTGTTGGGGCG

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TCCGCTCTTCAACCCTGGGGGGAAGGGGCTCTGGGGGTCCCTCATTCTCCCTGCACTTCTTA  
CAGCACCGGGACTCCCGCGCTGAGATCCCATCACACCGGGTACAAACATGCGGCTTTATT  
CCAGTTCTGTGTCCACCCCCGGCCCTGGTGGCACTCAGTGGCACCGCAGTCCATGCAGT  
GGCCGTTGTGTGTGTGTACAGCAGCGGTACC

12.1Figure 5

ATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGC  
 ACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCCATAGTTGCCTGCAAC  
 TCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCC  
 AGTGCTGCAATGATACCGCGAAGACCCACGCTCACCGGCTCCAGATTTAT  
 CAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCA  
 ACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGT  
 AAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTGCAG  
 GCATCGTGGTGTACGCTCGTCTGTTTGGTATGGCTTCATTAGCTCCGGT  
 TCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGC  
 GGTTAGCTCCTTCGGTCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAG  
 TGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATG  
 CCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATT  
 CTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAACAC  
 GGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGA  
 AAACGTTCTTCGGGGCGAAACTCTCAAGGATCTTACCGCTGTTGAGATC  
 CAGTTCGATGTAACCCACTCGTGCACCCAAGTATCTTCAGCATCTTTTA  
 CTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCA  
 AAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCT  
 TTTTCAATATTATTGAAGCATTATCAGGGTTATTGTCTCATGAGCGGAT  
 ACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACA  
 TTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGAC  
 ATTAACCTATAAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGAAT  
 TCCCGCCCGTAGCGCGCGCGCACCAGCCGGCATCGCACCCGAGCACCAGC  
 TCCCCCGTCGTCCAGATGCCACGGGCCACGTCGAGGCCGACGGGGAGAA  
 ATACACGTACCTACCTGGGGATCTCAACAGGCCCCGGGTGGCCAACCAGG  
 TCGTGGACGCGTTGTGCAGGTGCGTGATGTCCAGCTCCGTCTGTCGGGTGC  
 CGCCGGGCCCCAACCGGCGGTTCGGGGGGGCGGTGTATCACGCGGCCCGCT  
 CGGGTGGCTCGCCGTCCGACGTTGTCTCCCCGCGGGAACGTCAGGGCCT  
 CGGGGTACGGGACGGCCGAAAACGTTACCCAGGCCCGGGAACGCAGCAAC  
 ACGGAGGCGGCTGGATTGTGCAAGAGACCCTTAAGGGGGGCGACCGAGGG  
 GGGAGGCTGGGCGGTTCGGCTCGACCGTGGTGGGGGCGGGCAGGCTCGCGT  
 TCGGGGGCGCGCCGAGCAGGTAGGTCTTCGGGATGTAAAGCAGCTGGCCG  
 GGGTCCCGCGGAAACTCGGCCGTGGTGACCAATACAAAACAAAAGCGCTC  
 CTCGTACCAGCGAAGAAGGGGCAGAGATGCCGTAGTCAGGTTTAGTTCGT  
 CCGGCGGCGCCAGAAATCCGCGCGGTGGTTTTTTGGGGGTGGGGGGTGT  
 GGCAGCCACAGACGCCCCGGTGTTCTGTGTCGCGCCAGTACATGCGGTCCAT  
 GCCCAGGCCATCCAAAAACCATGGGTCTGTCTGCTCAGTCCAGTCGTGGA  
 CCTGACCCACGCAACGCCCAAATAATAACCCACGAACCATAAACCA  
 TTCCCCATGGGGGACCCCGTCCCTAACCCAGGGGCCCGTGGCTATGGCA  
 GGGCTTGCCGCCCCGACGTTGGCTGCGAGCCCTGGGCCTTCACCCGAAC  
 TGGGGGGTGGGGTGGGGAAAAGGAAGAAACGCGGGCGTATTGGCCCCAAT  
 GGGGTCTCGGTGGGGTATCGACAGAGTGCCAGCCCTGGGACCGAACCCCG  
 CGTTTATGAACAAACGACCCAACACCGTGCCTTTTATTCTGTCTTTTAT  
 TGCCGTCATAGCGCGGGTTCCTTCCGGTATTGTCTCCTTCCGTGTTTCAG  
 TTAGCCTCCCCCATCTCCCGGGGTGGGCGAAGAACTCCAGCATGAGATCC  
 CCGCGCTGGAGGATCATCCAGCCGGCGTCCCGGAAAACGATTCCGAAGCC  
 CAACCTTTCATAGAAGGCGGCGGTGGAATCGAAATCTCGTGATGGCAGGT  
 TGGGCGTTCGTTGGTTCGGTCATTTCGAACCCAGAGTCCCGCTCAGAAGA  
 ACTCGTCAAGAAGGCCGATAGAAGNNN

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TGGGGTCCTCTTTGGTCTGATGGAGAGAGGTTGGCACCAGGGTAAGTCGC  
TGCCTACATCACCCTGGTGTCTTGTCTCAGCAGCTGGTGTAAATTTCTG  
CCATCTGGGCTATTTCTGTAGAAAGCAAAGAAGCTCTGCTGGTGGGCAGC  
TCATCTCCAGTGTGAAAAAGCAAATGCAACGCATGCACCCTGCTATCC  
ATGTGGBCCYAKCCCTCTCCATCAGCTGTTGAAGGAGAAATCTGCACTCA  
GAAGAGATTGAATTGGGCTCAGATCTGGCTTGGGAAGATGATGATTCCAA  
CCAGAGTCCAGGAGACTTTGGGAATGCATGAATCCTATAGGAAAATGGA  
TAACCCTTCATCCAAGAGCAAGCTGGCATGATGCTCTGGGGTGA AAACCC  
ATAATGCCACCTGGTTTTAAGGTTTGGGGTGGCTTACAATGTGCAGCTCT  
GCTTCCGGCGAGGCACTGGGAGCCCTAAACCCATGGAGAGGTCAAACCAG  
TGCTGGAGGTCAATTGTGGGCCAGCTGCAATGGGAGGTAGGCAATTATGG  
ACATCGCTGAAGCCACCCACGCTCTGGGGAACCTTGGGTTTTACCTTTC  
ACTGCACTTTAATGGGATTTCTCATCAATGTCTGCATGTTCTTGGCCACC  
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TTGGGGGAGGATTC. FEUILLE DE REMPLACEMENT (REGLE 26) ATCTCATGT  
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[illegible]

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FEUILLE DE REMPLACEMENT (REGLE 26)

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AGAGGAGGAAGATGAGCTGGGGGAGGAAGAGCTGGACGTGGAGCAGGAGG  
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[illegible]

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CCTCTTCATCGAAGC **EVIDENCE DE REMPLACEMENT (REGLE 26)** CCCCTGTC  
CCACCTCCACCTCCAGAAATGCCTCCCCGAGGTGAAGCCCTGGCAGCCC

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CGGTCAGCCCATTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCCAA  
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CCCCGCGAGGTCCGAAGACTCATTTGGATCGATCCGGAATTCTCATGTTT  
GACAGCTTATCATCGATAAGCTTTAATGCGGTAGTTTATCACAGTTAAAT  
TGCTAACGCAGTCAGGCACCGTGTATGAAATCTAACAATGCGCTCATCGT  
CATCTCGGCACCGTCACCTGGATGCTGTAGGCATAGGCTTGGTTATGC  
CGTACTGCCGGGCTCTTGCGGGATATCGTCCATTCCGACAGCATCGCC  
AGTCACTATGGCGTGCTGCTAGCGCTATATGCGTTGATGCAATTTCTATG  
CGACCCGTTCTCGGAGCACTGTCCGACCGCTTGGCCGCCGCCAGTCC  
TGCTCGCTTCGCTACTTGGAGCCACTATCGACTACGCGATCATGGCGACC  
ACACCCGTCTGTGGATCTGCCTCGTTGGCCTGCCGCACTTCTTCAACCT  
CCCGGCCGAGCTTTTCTGTTCTCAATTTAGCATCCCTTTTCGGCATAACCAT  
TTTATGACGGCGGCAGAGTCATAAAGCACCTCATTACCCTTGCCACCGCC  
TCGCAGAACGGGCATTCCCTGTTCTGCCAGTTCTGAATGGTACGGATAC  
TCGCACCGAAAATGTCAGCCAGCTGCTTTTTGTTGACTTCCATTGTTTAT  
TCCACGGACAAAAACAGAGAAAGGAAACGACAGAGGCCAAAAAGCTCGCT  
TTCAGCACCTGTGCTTCTCTTTCTTTTCAGAGGGTATTTTAAATAAAAAAC  
ATTAAGTTATGACGAAGAAGAACGGAAACGCCTTAAACCGGAAAATTTTC  
ATAAATAGCGAAAACCCGCGAGGTGCGCCGCCCGTAACAAGGCGGATCGC  
CGGAAAGGACCCGCAAATGATAATAATTATCAATTGCATACTATCGACGG  
CACTGCTGCCAGATAACACCACCGGGGAAACATTCCATCATGATGGCCGT  
GCGGACATAGGAAGCGACTTCATCCATCGCTTTCTTGTCTGCTGCCATTT  
GCTTTGTGACATCCAGCGCCCGCACATTCAGCAGCGTTTTTCAGCGCGTTT

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Figure 6

DM

GCACAAGGAA ATGCAAAGGG GCATCACTAG GGGACATGGC ACGGGGCATT  
 51 CTAGGGAGCA TTGCATGGGG ACATTGCAAA GGAAATGCAA AGGGACATTG  
 101 CATGGGGACA TTGCAACAA ATTGAGTGGG AGATTGCACC GGGATGTTGC  
 151 ATGGGGACAT TGCATGGAAT GTCCACCAA CCACCCTGCA GGGTGACACT  
 201 GGGACCATCC CCAGCTCTGA CCATCCCCC TTTGCTGCAG CACCACCCCA  
 251 GGTCCGCATC GTCCCCATCC CCATCTCCAA CGACCCCGAC ACCGTCCACC  
 301 TCATCTGCCA TGTTTGGGGC TTCTACCCAC CCGCAGTGAC CATCCAGTGG  
 351 CTGCACAACG GCCTCGTGGT GGCCTCAGGT GACACCAAAC TGCTGCCCAA  
 401 CGGGGGACTG GACCTACAGG ACACAGGTGG CCCTGAGGGC CAGCATTGCA  
 451 GCAGGGAGCA CTAAACATG TTCAGTGTGG CAATTCCAGC TTGGAGCAGC  
 501 CGCTGCAGGA GGATTGGAGT GAGTTTGGGG ATGGGGATGT GGCACCCACA  
 551 CCCCACAGTC CCCCACGGTT CATTGTGCCC CACGCTGTCC CCACAGGTCC  
 601 CAATTTGTCC CCGGCGATGA TGGTGAAGGT GGCAGTGGCG GCCATGGCGC  
 651 TGACGTTGGG GTTGGTGGCA CTCAGCGCCG GGGTTTTTCAG CTTCTGTCAG  
 701 CGGCCACGGG GTGAGGGATG GGGATGTGGT GCTGGGGACA TGTGTGACAC  
 751 CGAGGGTCTG GTGTCCAGTG TGGGGTGAC CTCCTCATTC ATCATCTTCT  
 801 GTGTGGCAGC TCCTGGCGCT GGTCCCAGTA CCCCCTCCTG ATGCGGGTTC  
 851 TCACTCCAAT CCTGGTCCCC AAAATGATCC CGGTCCGAGT TCTGGTCCCC  
 901 ATCCCAGTCC TGGACCCCAT CCCAGTCCTG GTCCCCATTC TGGTCTTGGT  
 951 CCTGGTCCTG GTTCTGCTCC TGGTCCCTAT CCCTGACTCT GGTCCCGGTC  
 1001 CCCATCCCGA TGCCAGTCCC AGTCCTGGTC CCCATCCTGG TCCTGCTCCT  
 1051 TGGTTTGGGG ACCTCAATGA CTGGAAGTCC CATGTCCCAA CATGGGGACC  
 1101 CACAGTTTGG GGTGAGGGGC TCTACCCCC CAATAAAACC ATCTGCAGCC  
 1151 CCAACCTCGC TCCAATTCTT CGTTCCCACG TTGGGTGGGT CGGGCTCCCA  
 1201 GTGCTCCCAG CCGTNTATGT CCCGTAAGCG TCGGCTCCAC TGCATAAAAA  
 1251 GAAAAAAAAA AAA

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Figure 7

## Séquence Génomique TAP1

(Du début de l'exon 2 à l'extrémité 3')

```

GGC GAG ATG GCC GTG CCC TAC TAC ATG GGG CGA GCC AGC GAC TGG GTG GCC CGC GAG GAC AAG CTG GCA
G E M A V P Y Y M G R A S D W V A R E D K L A
GCC ATC CTG CCC ATG GTG CTG GGC CTC AGC AG GTACTGGCATAGGGGGACGGGTGCGGGCAGGGGGCAGCGCG
I L P A M V L L G L S S
GGACCCCTGACACCCCACTGCCGTACAG C GCT GTT ACT GAG CTG GTG TGT GAT GTG ACC TTC GTG GGG ACA
A V T E L V C D V T F V G T
CTG AGC CGC ACG CAA AGC CGC CTC CAG CGC CGC GTC TTC GCC GTC CTG CGG CAG AGC ATC ACC GAG
L S R T Q S R L Q R R V F A A V L R Q S I T E
CTG CGC GCC GAT GGG GCC G GTGAGGGGACCGGGCTGGGAGGGGACACGGGGATAGGGACAGGGGTGGCACTGACGGCGCTG
L R A D G A
TCACCCGGCAG GG GAT GTG GCC ATG CGG GTG ACG CGG GAT GCG GAG GAC GTG CGC GAG GCG CTG GGC AAG
G D V A M R V T R D A E D V R E A L G K
CCG CTG AGC CTC CTG CTG TGG TAT CTG GCA CGC GGC CTC TGC CTC TTT GCA ACC ATG GCC TGG CTG TCC
A L S L L L W Y L A R G L C L F A T M A W L S
CCG CGC ATG GCG CTC ACC GCG CTG GCG CTG CCA CTG CTG GCA CTG CCC AGG GCT GTG GGG CAC
P R M A L L T A L A L P L L A L P R A V G H
TTC CGG CAG GTATGGGCTGTCTGCACCTCCATGTGCCTTTGGTCCCTCCATGTGCCTCTGGTCCCTCCATGTGCCAGTGT
F R Q

```

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ACCACCATGACTCATTTGCCCTATCCATGTGCCCACTGTCCCCCTCCATGTACCCACCACATCCTCCTGCTGTGTCCCCCTCTGTGTGACCCGGC  
 TGTCCCTCCACGTGCCCCCATGCCCTTCCATGCGTCCACCATCCCGTGCCATGTGCTCATTTATCCCTATATGTGTGACCATTTATCCCTTCCA  
 CATGGTTCTGTCTCTGATGCCCCCACTGTCACTCCACATGCCACACCGTCCCCCTTATGTCCCCCTCCATCCCCCTCCACGTTCTTTG  
 TTCCCTCCATACATGCACTGTCCCTCCCCAGCCCCCATTTCCCTTCCACCCCGCTGCAATGACACTGCTGTCCCCAG GCC CTG GCA  
 A L A  
 CCA CAG ATG CAG AAG GCG CAG GCC CGG GCC AGC GAG GTG GCA GTG GAG ACC TTC CAG GCC ATG GCC ACT  
 P Q M Q K A Q A R A S E V A V E T F Q A M A T  
 GTG CGC AGC TTT GCC AAT GAG GAT GGG GCA GCT GCA CAC TAC CGG CAG CGC CTG CAG CAG AGC CAC CGC  
 V R S F A N E D G A A A H Y R Q R L Q Q S H R  
 CTG GAG AAA AAG GAT GTG GCC CTC TAC ACT GCC TCT CTC TGG ACC AGT GGT GTATGGGATGGGTGGCTCAAT  
 L E K K D V A L Y T A S L W T S G  
 AGCATGGGGACGTGATGGGCTGGGGATGTGGGGACATGATAGGATAGGACTGGGGGCGCATGGGGACATGGTGGGATAGGGCTGG  
 GAGATGTGGAGACGTGATTAATTGAGATGTCAGGAGATGGGGACAGAGTCCCAACGGGCTGGAGGCCATTAATGGTGTGGAGATGGCAGGT  
 CATGGGAATATGATGGGACATGTGGGACATAGATTGTATGGCATGGGGACATCAGGATGTAGCAGGCACACACAGTTTCAGGGGCTCT  
 GGGGCAGGAGGATGCAGTGACGTGGGAATGGGGCGCATGGGGCTCCAGGACACTGGGAACATGATGGCATGAGGGGACATAGCACAGAG  
 ATAGCACAGCTGTGGGACACTGGGACAGGGGGACATTGACAGACAGGAGGTGACAGAGTGGTGTGGGACTCAGAGTCCCGGGGGA  
 GGTGTCCCTGTGACCTCATGGCATCCTCAG TTC TCA GCC CTG GCC CTG AAG ATG GGG ATC CTC TAC TAT GGG  
 F S A L A L A L K M G I L Y Y G  
 GGG CAG CTG GTG GCC GCG ACC GTC AGC ACT GGG GAC CTC GTC ACC TTC CTC CTC TAC CAG ATA CAG  
 G Q L V A A G T V S T G D L V T F L L Y Q I Q

FIGURE 7 - SUITE 1

**Figure 7**

FIGURE 7 - SUITE 2

TGTTCTTGCCATATCAGCAGCCATCCTCATTTGAGTCACCCAGATATCTGGTCCCAGGCCATCACACACACCCTGATGTCTCTGCCATPATCA  
CCACTGTGTCCCCCTGCAGTCCCGGCCAAGTCCCCAACCATCCTTGTGTCCCCAACCATCCACCATTGTCCTCCAGATGTCCCTGCACACAT  
CCCCAGCCATCCCCACCGCTCCA CTGCCAGTTGCCCATGTTCCCCAGTGTCCCCCCCCACTGCAG GTG GCC GTC GTC CCC CAG  
V A V V P Q

GAG CGG CTG CTT TTT GCC CGC TCA CTC CAC GCC AAC ATT TCC TAT GGG TTG GGG GGC TGC AGC CGG GCA  
E P L L F A R S L H A N I S Y G L G G C S R A

CAG GTG ACA GCG GCC GCC CGG GTG GGC GCC CAC GAC TTC ATC ACT CGC CTG CCC CAA GGC TAC GAC  
Q V T A A A R R V G A H D F I T R L P Q G Y D

ACA G GTAAGCTGTCCCTTTCTGTTCGGGTCCCTCCATGGTCCCTCCAGCTGACCCCGCTCGTCCCGCAG AG GTG GGC  
T E V G

GAG TTG GGA GGA CAG CTC TCC GGG GGG CAG CGG CAG GCG GTG GCC ATT GCC CGT GCA CTG CTG CGG GAC  
E L G G Q L S G G Q R Q A V A I A R A L L R D

CCC CGC ATC CTC ATA CTC GAC GAG CAC ACC AGC GCC CTG GAC AAT GAG AGC CAG CAG CAG GTGGGATGTC  
P P R I L I L D E H T S A L D N E S Q Q Q

CCCCAGTCCCCGTGTCCCCACATCCCCCTGAGCCCTGTGTCCCTCAGATTGCACGCCTAGTGTCCCCCATGGTCCCTGTCTGTGTCTCC

CTTATCTCCACTCCTGGTGTCCCTCGGTCCCTGGCAGTGGCTGAGGAACATCCCCCTGAACCGTTTCTCCTCCACAG GTG GAG CAG  
V E Q

GAG ATC CTC GCA GCC AAA GGG TCG GGG CGT GCA GTG CTG ATG GTG ACG GGG CGG GCA GCC CTG GCG GCG  
E I L A A K G S G R A V L M V T G R A A L A A

FIGURE 7 - SUITE 3

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Figure 7

CGG GCA CAA CGA GTG GTG GTG TTG GAG GGG GGA GAG GTG CGG CAG GAG GGA CCC CAC GAG GTG GTG  
 P A Q R V V V L E G G E V R Q E G P P Q E V V  
 CGC CCC GTC AGC CTT NTT GCG GGA CTG GGG ACA ACA AGG GAG CAC CGG GGG AGG GGG ACA GAG GGA TAG  
 R P V S L ? A G L G T T R E H R G T E G \*  
 CGGAGTTTGGATGGGAGGGCAGGGGTGGGTGGGATGTGGATGGGACACTGCCGTTGGGACACTGAGGGTGGAGGTGGGGACAC  
 CGGGGACAGCAACAAAGGACCAAGAGCTGTGCCGTGGGCACATGGATGCCAGCCGGCGGCTGCCGTACCGCTGCTGTACGACACACA  
 ACGGCCACAGCATGGACTGCAGTCCCACTGAGTGCCACCAGGCCGGGGGTGGGACACAGAACTGGGAATAAAGCCGCATGTTTGT

FIGURE 7 - SUITE 4

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Figure 8

TAP2G

-213  
CGCCATACATTNTGGCCCTGTATGCACGGTGNPAATGGCGACCTGGCCNTCATGTTGGCCCTGGCCCAANTTCTTCCAGCACTGGCCCA  
TTGGGCTGGTGGC -107

-106  
TCCTGGCGAGGCCGGCTGCGCTCCTGGTGTGGGGGGGGGGGGGCGGCGAGCTGCTGGCCCCCAGGGGACCCCGTGGGGCTGCAGTGTGCT  
AGCATGGGCCCCGCC 0

+1 ATCTTCCTGACCTACGGGGCTATAGGTCTGCTGGAGCTCCCCGGTGTGCTGGCC ATG GCA ACG CCG TC  
TGG CTG GTG CTG ACC CAC +93 5'UT

W L V L T H M A T P S

+94 GGG ACA GCT GTG GCA TTG CTC ACC TGG AGC CTC CTG GTC CCC ACT GTG GCC ACT GGG  
GCA AAG GAG GCA AAG GCC TGG +174  
G T A V V A L L T W S L L V P T V A T G  
A K E A K A W

+175 GTG CCC CTG AGG CGG CTG CTG GCC CTC GCG TGG CCC GAG TGG CCG TTC CTT GGC TGT GCC  
TTC CTC TTC CTC GCA TTG GCT +255  
V P L R R L L A L A W P E W P F L G C A  
F L F L A L A

+256 GCA CTG GGT GAG ACC TCA TTG CCC TAC TGC ACC GGG AGG GCT GTG GAT GTC CTC CGC CAG  
GGG GAC GGC CTC GCC GCC TTC +336  
A L G E T S L P Y C T G R A V D V L R Q  
G D G L A A F

+337 ACC GCT GCT GTC GGC CTC ATG TGC CTG GCC TCT GCC AGC AG  
GTAGGACCCACATCCCTCCACAAACCCCATCCACCTCTGGTGGTCT +429  
T A A V G L M C L A S A S S

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+430  
GGTGGGTTTGGGGTCTCTGTCCATATCTGGGGGTCTGTGATGGGTTCTGGGCACTCCACTGACCCCTTTGTGATTGTCTGAAGGGTTCTG  
GCTCTCCATTGACCC +536

+537 CTGATGGGTTTGGAGTCGCCCGCCCAATTCCTTCCCAG C TCG CTG TTT GCC GGC TGC CGC GGT GGC CT  
TTC ACC TTC ATC AGG TTC +624

F T F I R F S L F A G C R G G L

+625 CGC TTC GTC TTG CGC ACC CGC GAC CAG CTC TTC TCC AGC CTG GTG TAC CGG GAC CTC GCC  
TTC TTC CAG AAC ACC ACA GCA +705

R F V L R T R D Q L F S S L V Y R D L A  
F F Q N T T A

+706 G GTACAGACTGGGGCACTTTTGTCCCTGTCCCGCACCATACCCCGCAGCTCACCCTACTCACTCCACAG CT GAG  
TTG GCC TCC CGG CTG ACC ACC +828

L A S R L T T A E

+829 GAT GTG ACG CTG GCG AGC AAC GTG TTG GCA CTC AAT ATC AAC GTC ATG CTG AGG AAC CTG  
GGG CAG GTG CTG GGG CTC TGC +909

D V T L A S N V L A L N I N V M L R N L  
G Q V L G L C

+910 GCC TTC ATG CTG GGG CTG TCC CCG CGC CTG ACA ATG CTG GCA CTG CTC GAA GTG CCG CTC  
GCC GTC ACC GCA CGG AAA GTC +990

A F M L G L S P R L T M L A L L E V P L  
A V T A R K V

FIGURE 8 - SUITE 1

FEUILLE DE REMPLACEMENT (REGLE 26)

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Figure 8

+991 TAT GAC ACC CGG CAC CAG  
GTATACAGGGATGGGATGGTGGGTGACAGGGATGGAGGCAATGGCAATGGGATGGGACAGTGGGAGTGGGGAT +1091  
Y D T R H Q

+1092  
AGTAGGTGGGGATTGTGGGTCAGGGTGGCAGGGATGAGGGCAGCTGCAATGGGATGGGAACAGTGGGAATGGGAGAGCAGGATGGGA  
CATGGGTCCACACA +1198

+1199  
GCAAGGATGAGAGGATGGAGAAGAGTGGAGCAGGAATGGAAGTGGGATGGCGAGTACTTGGCCATCCCATGGGTGCTGACACCCACTGTCC  
CCCCAG ATG CTG +1302

M L  
+1303 CAG CGG GCC GTG CTG GAT GCA GCA GCC GAC ACC GGA GCG GCA GTG CAG GAG TCC ATC TCT  
TCC ATT GAG ATG GTA CGG GTC +1383  
Q R A V L D A A A D T G A A V Q E S I S  
S I E T V R V

+1384 TTC AAT GGC GAG GAG GAG GAG CAC CAC CGC TAC AGC CAG GTG CTG GAC AGG ACC CTA CGG  
CTG CGG GAC CAG CGG GAC ACA +1464  
F N G E E E E H R Y S Q V L D R T L R  
L R D Q R D T

+1465 GAG AGG GCC ATT TTT CTC CTC ATC CAG CGG  
GTGAGGCTGACACGAGGGGACACCCCTGGTGTCTGGGTGGGATCGGGACATCCCGCTGAGCCCCAT +1561  
E R A I F L L I Q R

+1561 CCCCACAG GTG CTG CAG TTG GCT GTG CAG GCA CTG GTG CTA TAC TGT GGG CAC CAG CAG CTC  
CGC GAA GGG ACC CTC ACT +1641  
V L Q L A V Q A L V L Y C G H Q Q L  
R E G D L T

FIGURE 8 - SUITE 2

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+1642 GCC GGC AGC CTC GTC GCC TTC ATC CTC TAC CAG ACT AAA GCT GGC AGC TGC GTG CAG  
 GTGAGGTGAGGCGTGCCTCTGCCACCG +1729  
 A G S L V A F I L Y Q T K A G S C V Q  
 +1730  
 GATCCCCATGACTGTGGCCACATCCCCGTGTCCCCACCCTGGGTGCTGTGCCTGGGGGTACATCCCCATGTCCCTATCCTGGTGCTGTG  
 CATGCAG GCA CTG +1834  
 A L  
 +1835 GCG TAC TCC TAT GGT GAC CTT CTG AGC AAT GCA GTG GCC GGC TGC AAG GTC TTT GAT TAC  
 CTG GAC TGG GAG CGA CCT GTG +1915  
 A Y S Y G D L L S N A V A A C K V F D Y  
 L D W E R P V  
 +1916 GGT GCT GGT GGC ACC TAT GTG CCC ACC AGA CTG CGG GGC CAC ATC ACC TTC CAT CGG GTG  
 TCC TTC GCC TAT CCC ACT CGC +1996  
 G A G G T Y V P T R L R G H I T F H R V  
 S F A Y P T R  
 +1997 CCT GAG CGC CTC GTC CTG CAA GAT GTC ACC TTC GAG CTG CGC CCC AGT GAG GTG ACG GCG  
 TTG GCG GGG CTG AAT GGC AGC +2077  
 P E R L V L Q D V T F G L R P S E V T A  
 L A G L N G S  
 +2078 GGG AAG AGC ACC TGC GTG GCA CTG CTG GAG AGA TTC TAT GAA CCT GGG GCC GGG GAA GTG  
 CTG CTG GAC GGG GTG CCG CTG +2158  
 G K S T C V A L L E R F Y G P G A G E V  
 L L D G V P L

FIGURE 8 - SUITE 3

FEUILLE DE REMPLACEMENT (REGLE 26)

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Figure 8

+2159 CGG GAC TAC GAG CAT CGC TAC CTG CAC CGC CAG  
 GTGAN3GGGTGGGGGAAATGTTAGTGCACCTGAACANTGCTGGGCTGAACCTCTGCCCTGG +2254  
 R D Y E H R Y L H R Q  
  
 +2255 GGGCAG GTG GCA CTG GTG GGG CAG GAA CCC GTG CTC TTC TCT GGC TCC ATT CGG GAT AAC  
 ATT GCC TAC GGG ATG GAG GAC +2335  
 V A L V G Q E P V L F S G S I R D N  
 A Y G M E D  
  
 +2336 TGC GAA GAG GAG ATC ATA GCA GCT GCA AGG GCT GCG GGT GCT TTG GGC TTC ATC TCT  
 GCA CTG GAG CAA GGC TTT GGC +2416  
 C E E E I I A A A R A A G A L G F I S  
 A L E Q G F G  
  
 +2417 ACT G GTGAGTGTGGGAGCAAGGGGGGACCCGGGTGTCTGACCCCACTCATCCCCACCCTCATCCTGCAG AC --  
 GTA GGG GAG AGA GGG GGG CAG +2511  
 T  
 G E R G G Q D  
  
 +2512 CTG TCA CGG GGG CAG AAG CAG CGC ATC GCC ATC GCC CGC GCT TTG GTG CGG CGT CCC ACC  
 ATC CTT ATC CTC GAC GAA GCC +2592  
 L S A G Q K Q R I A I A R A L V R R P T  
 I L I L D E A  
  
 +2593 ACC AGT GCT CTG GAT GGG GAC AGC GAT GCA ATG  
 GTGAGCACTGAGCAGTGGGTGGGGGAGGGTCTG?CCCTGCAGTGCATGCTGATGGCAGCTG +2688  
 T S A L D G D S D A M  
  
 +2689 TGTGTCCTACAG CTA CAG CAG TGG GTG AGG AAC GGA GGG GAC CGG ACG GTG TTG TTT ATC ACC  
 CAC CAA CCA CGG ATG CTG +2769  
 L Q Q W V R N G G D R T V L F I T  
 H Q P R M L

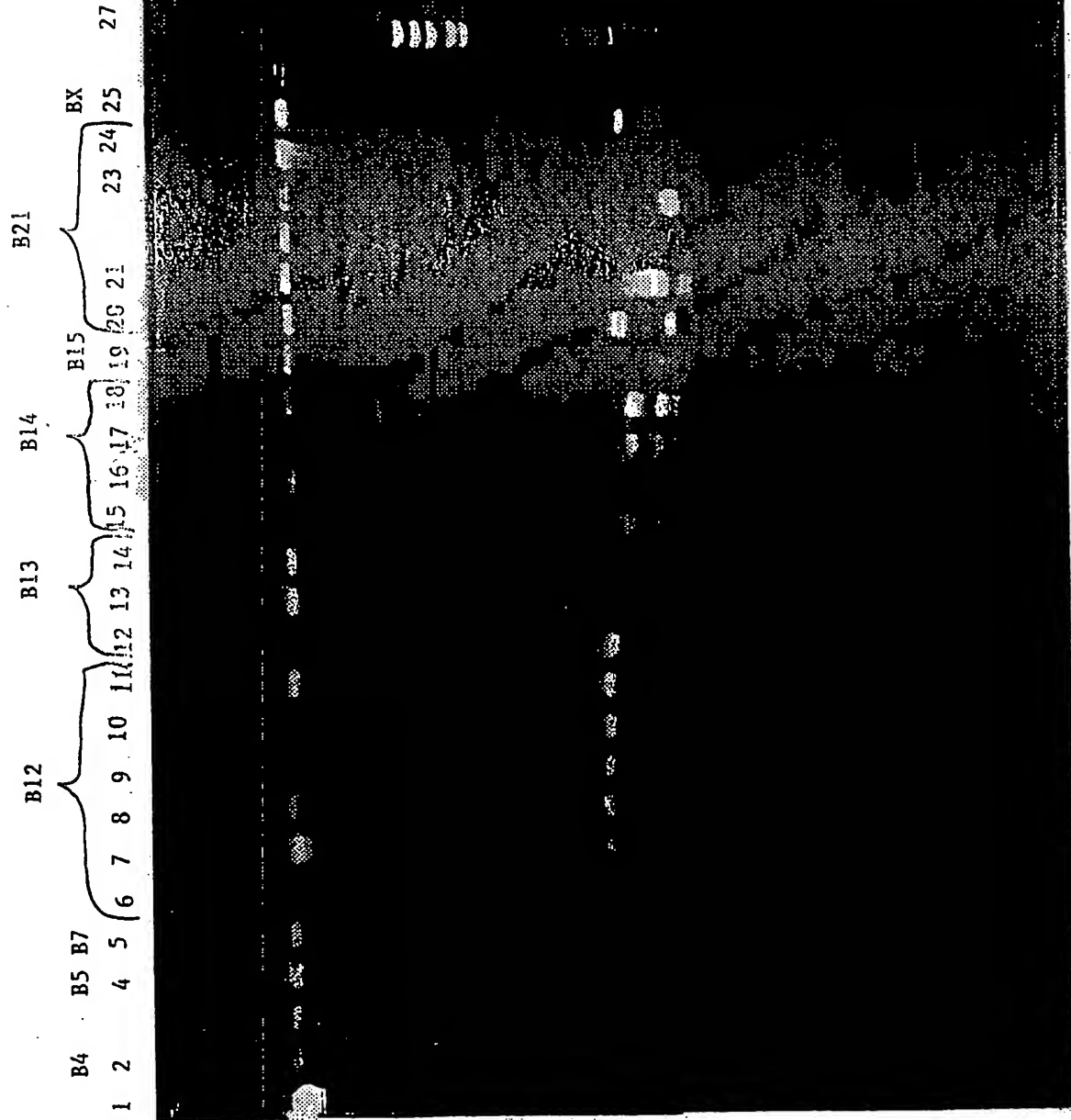
FIGURE 8 - SUITE 4

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+2770 GAG AAG GCA GAC CGC ATT GTG GTG CTG GAG CAT GGC ACG GTG GCT GAG ATG GGG ACA CCC  
 GCC GAG CTG AGG ACC CGC GGC +2850  
 A E L R T R G  
 E K A D R I V V L E H G T V A E M G T P  
 +2851 GGA CCC TAC AGC CGG CTG TTA CAG CAC TGA  
 GAACCATGGAGCAGCTGGAGTGGCATGGCATGGGAGCAGTGAAGTGCCTTTGCTTCCAGC +2947  
 G P Y S R L L Q H +  
 +2948 TGCAGGATGGGATGTTTGGGATTTGTGTGGAAATAAGTGGAGATGCTTTGT  
 +2999 3'UT  
 INTRON 2-3 : EF23(1B#1R)3R  
 INTRON 3-4 : EF23 2(1)  
 INTRON 4-5 : EF23 352H CON  
 INTRON 5-6 : EF23224RS  
 INTRON 6-7 : EF23(5B#5R)1R  
 INTRON 8-9 : EF23277B CON  
 INTRON 9-10: EF23 43RSR  
 INTRON 10-11: EF23 43RSR  
 INTRONS 1-2 ET 7-8 INEXISTANTS CHEZ LE POUET

FIGURE 8 - SUITE 5

FIGURE 9



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A5FIN.txt

GTCCCTATTCCCATTGTGTCCTCACATCTGCCATCTCTTCTGTCCCCAT  
CTATGCTTTGTGCCCCCATCCCTTACCCCATCCCCACGTGTCCCTGTGG  
TGCCACCTCCACACGTGTCCCGTGTCCCCACAGCGGGGCGGTGGCGCAA  
TAACACTGTGATGTGGCGCTGCTGCCGGGACGGAGCGACGGCGCTGCCCA  
TCCGTGCCACGTGCCAGCAGAGGGGACAGCGGGTGACGACGGCCGGGGG  
TGCCGAGACGCCTTCTGCACTGCTGTGAGGTGGCACAGAATCTGCGGCG  
GAAGGGACAGCGCGGGGGGTGGCACGGGGTGAGTGTGACGAGTGTCCCC  
AAAGCGGGGAGGGGTGACCTGGGGTGGTGGCGGTGGGGTGTGGGGGAGTT  
GTAGAAATGGGGACCCCATTTGGTGTGGGGAGGTTTGGATAAGGGGTCCCC  
ATGGGTGGTGGCACATGGGGACATCCCATAGCCTGGGATCCCATGGTTGG  
GGCCATCCCGTACCTGGGATCCCCACATGGGAGGATGTCCCCCGCTGTCC  
CCATGGCAGTGATGGAGGCACAGCTGGCAGAGCAGCTGTTGGATGATGAT  
GAGGACGTCCCCACGAGGAGCTTCTTCCCTGAGAGCTGGCTGTGGCGACG  
CATCCATGTTGCTGGCACTGCACGGTGTGTCCCCGTGTGTCCCCATGTCC  
CCATGTCCCCATGACTTTGTGTCCCCGTGTCCCCATCTCCCCATCTCCCC  
AGGCTCTCAGTGCTGCTCCCTGACTCCATCACTACGTGGGAGATTACAGG  
AGTCGCCATCGTCCCTGGACATGGTGAGTGTACCCCCCTCCAATGGCCCT  
GCAGTGTCCCCCTGACATCCCCCTCGTGGTGTCCCCATGTCCCCACGTC  
CCCAAGTTCTCTATGGTGTCCCCATGTCCCCCTCTCCCCCTCCCCCGGA  
ATGTCCTGTGTCCCCGTGGTGTCCCTGCACTGCCCGCAGTGATGAGGT  
CCTGGCAGGGCTGTGCGTGGCGGAGCCGACGCGGTGACGGTGACACAGG  
ACGTGCGTGTGGCGCTTTGGCTGCCCCCAGCATCCGGCCCCCTAGAGCAG  
ATGCAGCTGCAGCCCCCTCATCCACAGCAGACTGCCCGCAGCATCAACGT  
AAGCCCTATAGAGACCCCATAGGCACCCAGAGATACCTCTTCCCTCTA  
ATAAATACCACTTTGCTTCCAATAGATAACCCCTCCTGCCCCATAGGTACC  
CCTGTGCTCCATACTTGCCCTGCCACAGCATACATACCCCTTTCCCTCCA  
ACAGATATGCGTTGCCCATAGATACTTCTTTCTGCCCTATAGATAACC  
CCTCATGCCCCACAGATTCCCGTTTCTTTCAATTGGTACCCCCCTGCCCC  
TCATATATCCCCCTTACCCACGGATACCCCTTAGACACCCGGTACCA  
CTTCTGCCCCCATGGATACCCCTGTGGCACATAGATAACCGCTTCTGCCCC  
ACAGATAACCCCTTCTACTCCACTGTCCACAGCCCCCACTGCCCCATG  
GCCACCCATAGCCTGGTGGCATCGGGTGACAGTGACGGTGATGCAGGTGA  
CGGTGACACTGTGCGCAGTGGAGGGGGTGTGCGCGGCGCTGGATGGGGT  
CCCCAGATGCTGGAGCTGCCCCGGGGAGGGCAGTGGCTGCACCCCTCAC  
TCTGGTGGCCCTCCACCTGGGGACATCCCCATCACCATCACCGCCCGCG  
GGCCATGGGGGCTGGGGGACCGTGTCACCCGAGTCTGCTGTCGAGGTG  
AGATCAGTGGGGTCCCCCTCCAGTCACTGGGTCACTCTGGGGTCCCTTA  
AAGCCCTGCGACCTCCTGGACATTGTTGCTTGTGAGCCTGCGGTCACT  
CTGAATACTGGGGCTGTCACTTTGAGGTTGATGGACACCATGTCCCTGTG  
TCCATGGTGGCCCTGGACATGTTGGTCTTATGGGATCTGGGGACATGGG  
GTCCTTGGTGGTCTGGATACTGCAGTTGTCCTTTTGTGGACACTATGTC  
CCCATGTCTTGGTGGGAATGGTGTCACTCCATTCCCGCAGCCTGAGGGAG  
AGCTGCACCTGGAGGAGAGCACCTACATCCTGGACGCAGATGGTGGGTGT  
GAGGACTGGGGGACACTGGGGAACTGGGGACGTGGGGCCGGACCCTGTG  
GTGTGGTGTCCCTACAGATAAGCGGAGCCGGAGCCTGAAGCTGCCGGGGG  
ACGTCCCTGCAGAGATCGTCCCTGATGGGGACTTCAGCATGAGCATCCGT  
GTCAGTGGTGTGTGGGGATGGGGACATGGGGTGGGGACATGGGGGTGGGT  
ACTGGGAACGTGTGGGGATGTGGTGGGCATAGGGGACATGGGGGACA  
TGGGAGGACATTTGTTGGGGACATTGATGTCCATCCCTGATCATCTCTCT  
GTCCCTATGTCCCCATACCCATGTGTGTGGCCATGTCCGCACGCTGTGCC  
CCTGTGTGTGTCCCCTGGGTGTCCCCACATGTGCTCACATCCTTATTACA  
TCCCCACATCTCCTGTGTACAACCCCGTGTGCCCTGATGTGTGCCCTCC  
ACACATCCCCATGGGTGTCCCAATGTTCCCATGTCCCTCTGCTCATCCCC  
ATCCACATCCCCATGCCTATGCTCCCTATGCGGACCTTCCCGCATTTGCCA  
TCCTATCCCCATGTCCCCATGTCCCATATCTCCATACCCCTGTGACCCCA

FIGURE 10

FEUILLE DE REMPLACEMENT (REGLE 26)

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..5FIN.txt

TATCCCTGTCCTTCAACTCCCCTCCCATCCCCACACCATCCCCATGTCTT  
CTGTCCCCACACCATCCCCATATCCCCCTGTCCCCCTGTCCCTGTCCCA  
GGCCGGGTGCCGGGCTGGGCACTGCAGGGCGCTCTGGGGATAGGGGACTC  
TCTGCTCCGCTCCCCCGGGGCTGTGGGGAGCAGTCCCTGATGTCAATGG  
CACCCACTGCTGCTGCTCTGCGCTTCTGGATGAGAGCGAAGGGTGGGGG  
CAGCTGCCCCCAGGGCACCAGACAGCGCGGCTCAGAACCCTGCAGCAGGG  
TGAGCTATGGGGCAGGTTGTGCTTTATGGGGTGGGCAATGCTTTATGGGG  
TGTGCAGTGTCCAAGGGATGTGCAGTGTTCATGGGGGATGCAGTGGGG  
TTTGATTTGATTTGATTTATGGGTTTGCATTTCTCCTCCGAGGATTGCAT  
CTCTCTATGGTGTGCAATGGGATGTGCAGTGTCCAGGTGGAGGTGCA  
GAGCCCTATGGGGGTGCAGTGTGTGTAGGGGATGTCTGTGGTGTCCCCA  
ATGGTCTCTGATGTCCCCACAGGCTTCGAACGGGTGCAGAGCTTCCGCAA  
AAGTGACGGCTCCTATGGGGCATGGCTGCACCGGGACAGCAGCACCTGGT  
GAGGGGAGCGGGGATGATGTGGGGACATGGGGATAGTGAGGGGATGTGGG  
GATGCTGGGGTATGGGGATGTGAGGACATCATAGGGACATGAGCGGTGGG  
GCCATGTGGATTGAGGGGACGTGGTGACACGGTGTCTGGTGCAGGCTGAC  
GGCACTGGTGTGCGTGTGCTGGCCCTGTCCCGGCCCTATTGCCAGTGG  
CTGCGCAGCGGCCCGCTGCGTCCCTGCGGTGGGTGCTGGGGCAGCAGCGC  
CCAGATGGCGCCTTCTTGGAGCACAGGGCTGTGGTGCACCGTGAGATGCA  
GGTGGGTGACACATCACTGCTGTGTGCAATGTCCCCATGCAGGATCTCCC  
CCTGCAATGTCCCCTGAAGGTCCCTGCAGGCTGACCCACATTACACTGT  
GTCACTCACGTGTCCCCGTGTCCCCAGGGTGGTGTGGCAGACCCCGGCC  
GGAGGCCACCGTGTGCTGACGGCCTTCGTGGTGGTGGCCCTCCATGGTG  
CCCGCGCTCTGCTGCCCCCGGACAGCCCTGAGCTGCCCTCCTGGTGAGT  
CCCATGTCCGACCCCTGTGTCTTGGTCCCTCATATCCATGTGTCCCTTGT  
GCCCCATCCCCCAAATCCCCACATCCCCCATATGTTCCCATACCCTGCTG  
TGTCCCCCAGTGTTCCCCCGTCTTTCATTCTCCACTATCCCCCGTATTCT  
CCATATGTCCCCCTGTCCACCAAGTGTCCCTCATCCCTCTGTGTCCCCCT  
GTCCCCCAGTGTCCCCCAGTCCCTGTATGTCCCCATGTCTCCTAGTGTC  
CCCCATGTCCGTGTCTCCAGTATCCCCCATGCCTCCCCGTGTCTCTTCA  
TGCCCCACACTCCACGTCCCCACACTCCATGTCCCACTGCCACAGGACAA  
ATCCCTGTCCCGGGCCTCCACGTTCCTCCGGGGCCGCGTGGAGCAGTTGG  
GGACCTATGGGACAGCCATTACATCCTATGCATTGGCACTGGTGGACACC  
GCTCCTCCGGGGCCGCATCCGGCGGTGGAACGTCTGCGGGGCATGGCCCG  
GAGCGCCCACGGTGCCTGTCTGTCTGTCCCCATGGGGTGGTGGCACCTCT  
GTCCCCATGGCTGCCTCCTGGACCCCTCTGTCCCCTCCTTCAGATTCACT  
CTCATTGCAATCCTTCAATTTTATTTCTCCTCAAACCTCTTCTTCTTTGTA  
TTCTTTCACATTCAATTCCTTCAAAATTGCTCTCCTTCTGTCTGTCTTCTC  
TTCAAATTCTTCTTCAATTTTGTCTCCTGATTAATTCTCTTAAATTA  
CTCTCGATCAAGTTCTGCAGATTCTGTTCCACTTCGGATGGATTCTTCTCC  
AAACTGTTCTTCAGATTCACTCTCCTTCAATTTCTGTTCTTGTAAATTA  
CTTCTTCAGAGTGATTCTTCAAACCTCTTCTTCATGTTCTCTTCAAGTCCA  
TTCCCTGCACTGACTCCGGGTGCTCAGGACCCCCCGTGACCCCATATGA  
CCCCATATGAACCCCCCATGACCTCCACAAAACCATATGACCCCGTGACC  
TCCCATGACCCCTCATGACCCCATATGACCCCATGACCCCATCCCTGT  
GCAGGTGGCCGTGCAACCTTCTGGCCATCCGGTGGCCCCGACCCACGGT  
GGAGGCGACGGGTACGCCCTTCTGGCACTGCTGCAGAGCCGCGACATCG  
CCGGGGCTGCGAGGGCGGCACGGTGGCTCCGACAGCAGAGCAATTACGGG  
GGTGGCTTCCACTCCACGCAGGTGGGTGGGGGTCACTGACCCCGGGGTG  
CCTCGGGGTGGGGGTGATTTGATCCCAGGTACCTCTTGGTGGCTGTGT  
CCCCAACCTGCTTGGTGTTCGCGCAGGACACGCTGGTGGCCCTGGAGGCG  
CTGGCCAGATGTGGCTGCACTGGGGCCGTGGGAACACAATGGGGCTGAA  
CCTGGGGCTCTCCTGGCCGGGGGGTGCCCGGGGGAGGGCTGGTGGCACTC  
AGGTTATGCTGAAGCCGGGGCTGGAGCCGCTGGAGCAGGAGCTGCAGGTG  
GGGACATGGCGGGATGTGGGGACACGAGGGATGTGAGGACACTGGGGACA

FIGURE 10

SUITE 1

FEUILLE DE REMPLACEMENT (REGLE 26)

TGTCTGGACTTGGTAGGATGTAACATGAAGACACTGGGGACATGGTAGGA  
CATGGGGGACATGAGAACACGGGATGTGGGGGACATGGTAGGACATGATG  
GACACAGGGCTTTGGGGTCTTGGGTCTCGCTCTGTCCCCATGTCCCCA  
GGTGCCTCTGGGCAGCCCAGTGACAGTGCAGGTGGAGGGACACGGCGAAG  
GGACGCTGACGGTGGGTGGCTGCATGGACATTGGTGTCTCTCCAAGACC  
GATGTCCCCCTCACAACCTCCCCCTCATGGTGTCCCCCTCATGCTGCCACGGT  
GTCCCCCTGCTGTCCCATCATGGTGTACGCTGTCCCCAGGTGCTCCGCCA  
GTTCCGCCTGCTGTACCTCCGAACGCCACGTGCCAGGCGCTGCACCTGG  
AGGTGGCCATCACCGGCCCCATCTGTACCATGGTGAGGCCCCACCCAAA  
GGCCCCGCCCCCTTTTCTCGCGGGGGGCGTGCCCTCAACCCTGTTTTGC  
ATATCCCAACCCCCAGCAGATGAGGACTACGAGGACTACGAGGACTACGA  
GGAGGCGGAGCCTAAGGAGGGGGAGGAGCCTACGGAAGGGGAGTGCCCCG  
TGGAAAGGGGCGGGGCCAGCAGATGACCCCGCCCCCTCAGCCCCGTGTCC  
TTATGGGATGCCCCGTAAGCGGCAACGCCGACACACATAACCCTGCCCA  
CGAGGTGGCCTTCTGGTCTGCTTCCGGTGAGGGGCGGAACTTCTGTCC  
CTGGGGGCGGGTCTTCTGCTGATGGGCGTGGCTTATTGCTGAGGGGCGT  
GGCCTGTTGTAGGCGGAGCCAGGGGTGGCACTGACTGGGATGGCGGTGG  
TGGAGATCACTCTGCTCAGTGGCTTCTCACCCCATAGAGCTGACCTGGAC  
AAGGTAGGGGCCCAGGGGGACTTGTGGGACATGTTGGGGGGTTGAGGGGA  
GTTATGGGGTGTGGGGTTTGGGGGTGTTGGAGTTGTTGAGGTGGCAGAAT  
GTTTGGGTGGAGTCATGGGATATGGGGCTATTGGGGTTTGGGGTGTG  
TGATGTTGGGAAACATTGAATTGGGGTTGTTGAGTTGAGGGTGTGGGG  
TGTGCGGGTGACAGAGCTGCAGCTGCTGGGTGGAGTATTAAGGTGTTGGG  
ATGTTGGGGTGTGGATGGCTGGATGCGGGTGTGGGGTGGGCACGTAT  
CTGGGTGCTGCTGTCCACACAGCTGCGGGACGTGGTGGATCACTGGAT  
CAGTCACTATGAGTTGGAAGGAAACCAGTTGGTGCTATACCTGGATGAGG  
TGTGTCTCTCCCGTGTACCCCTATAACCCAGTGGCCCCATGTTCTCATAT  
CCCCCATGTCCCCGTGTCCCCACACCATATCCCATCTCCCCACACATCC  
CCGTGTTCCACCACGTGTCTCATTCTGTCCCTGTCCCCAGGTCCCCC  
CGAGCGGCAGTGTCTCAGTTTGGGGCCACCCAGGACGCGGTGTGGGTC  
ACATGCAGCCGGCAATGGCAGCCATCTATGACTACTATGAGCCTGGTGGG  
TGGGGCCTTCAGTGGGAGGGGCTAAATGGGTGGTGGTCTTCATGGGTGT  
GACCATTGGAGGAGGCGTGCCGATCTGACCCCTCCATGCCCCATCCAGG  
ACAGCGCTGCACCGTCTTCTACAACGCCCCCAAAGGAGCAGCACCATCG  
CCACACTGTGCTCCCCAAATCTGTGAATGCGCCCAAGGTAGGACCCCA  
CTGTGACTCCATATGTAGGGCCCCCATCCAGTGAACCCCCACATCCTCCT  
CCTAATTTTTGAAGATCTGGGGGTGAAATTATGGGGTTTATAGGGGAGCG  
TGGTTGAGTGACATGCAGGACATGGAGGGAACCCACACCAAGAACCTTGT  
GTTTTGGGTCCCTGATGATGTTGGGAGATCCTATTGATGTTGGTGGTCCC  
CAGGGGGGTGTCCCCAAGCCCAAGGAGGACACAGGAGGTGACAGCTGAT  
GACCGCCATGACTTTGCCTGCTACAGCCCCCGCGTGGACTATGGTGAGAT  
CCCAAATCACTGCACCTCAAACCTGACCCCAAATTGGCTGCATCCCGAAC  
CCCAACTGCCCTAAATCCCATCTGCTGCCCTGAGTCCCACAGCTGCACA  
CTGTACCCCAAGTGGCCCTGAAGCCTAAAACATTACGAGGATTTT  
GTAGTTTTCTCCCTGTACCCAGTTGTCCCTCTGACCCCAAGAACCCAC  
AGCTGCCCTATGCTGTCCCTGCCCGCCATAACTCCTCTGATACAATAAC  
CCCCGTGACCCCATCTTTATGACCTCCATGACCTTTGACCCCAAGCACTG  
GTGGTTCGGGTGCTGTCCAGAGTGAGATAGGGGCTTTGTGGCGTTTGA  
GACGGAAATCAAGGAGGTGCTGCTTGAAGGTGAGACTGAGGGTAGTGGGA  
CGGACTGGAAGGTGAGAATGGGAGCACTGGGAGAGGCAGGGAGTACTGAG  
AGGGACTGGGAATGACTGGAAATTGAGACTGGGTGGACTGGGAACCTCTGG  
TAGAGACTGAATGGGTATACTGGGAACACTGGAAGAAGTTGTGGGATGAG  
AAGAGGATGCTGGGATAGGAGACCCCCCCTTGTGCTAGGGGGGTCTCT  
CAGCCATACTGGCACAATATGAGAGTATACTGGGTGGTACTGGGAAAGCT  
GGGAGGACTCATACTGGTCTGCTACTGGTGCAGGGCAGGACACAGGACTG

FIGURE 10

SUITE 2

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CCCCCTGGGGAGCGGAGGGCGGCTGCTGGTGCGGAAGAGCTGCCCACTGCGC  
CTGCAACTCCACAACATCTACCTGGTGATGGGGGGCAGCGGGAGGACGCG  
GGACCCTGAGGGGCGGTGAGAAGGGGCTGTGCCCCATGTCCACATGTCCC  
TGTGTTCTCATGTTCCCATGTCCCATATCCCAGTGTTCCTAACCCCATAT  
CCTTGACCTTGAGCCCATACCCTGATATCCCTGACCCTGTCCCCATTCTC  
AGCCCCCAGTTCCTGCTGGGCCCCCACTCATGGTTGGAGGAGGTGCCATC  
CCCTGGACGCTGTAAGGCCACAAGGTTGCGGGGTTACTGCGCCCAACTGC  
AGGAGTTCGCGACCCGCTGAGCCAAGTGGGCTGCCAGCTGTGAGCCCCT  
GGGAGCCACTGGGAGCATGTTGGGTGCAGCTGGGACCATTCTGGGGGTGA  
AGTGGTACCCTGTTGGATCAGTTGGGATCAATTGGGAATAAACTAGTGT  
TGACTGGGACCGTGTGTGACCAACTGGAAGTGTGTTGGAAGAACTGAG  
AGCTGCTGGGGTTGAGTGGGAGCAACTGGAAGTGTGTTGGAACAAACAGG  
GGACCAACTGGGATCACACTGTGGTCAGCTGGGATCACACTGGGTCAAAA  
AAGATCACAGTGGCCCAATTGGGGTCATACTGGGGTGAGCTGGGATCAGA  
ACGAGTTTAATAAACGTACAGTCGTCCGAGCCACCACAGAGTCAGCCCTC  
CAGCGGCGCAGAGCGGCGCAGCGCGCACTGGCTGCCCGCGGTAAGCGGAT  
GTGACGTCACTTCGCGGCGCGCTATTGAACTCCAGCAGCGCCCCGCGGA  
GCGCCCCAATGCCGCGGCCCCAAACCGCGCAGCCCCCGCGCGGGGGCCG  
CCCCCCCCGCGCGCCCCCCCCGCCACCCCCCGCGCGGCTCGCGGTGAGTG  
CAGCCCGTAGGAGTGCGGAGTGTGGGGGCGGGGGGGGGGGCGTCTGGAGC  
GGAGCCTTTATCACCGCTGTTTCCCGATTTCCTCGTCTTTTCGCCCCGT  
TTCAGCCCGCCGTTACCGGCCCCGTGAGAGGCGCTGCGGGAGATCCGCC  
GCTATCAGAGCAGCACCGCTCTGCTGCTGCGCGCCAGCCCTTCGCGCGC  
GTGGTAACGGGACTGCCCGGAACGGGACACCCCCCAACCCCCCAACGG  
GACCATCCCCCACGGATGGATCCCCCCCCACACACATCCAACGTGGGAC  
CCCCCGCCCCAAAATGAGATCTCAACGTGAGATCTGGGGGCCTCAAAATG  
AGACACTCTCCCCCTCCCCAACGGAACACCCCGAAAATGGGACCACAC  
ATAAAAGTGGGGACTCCCCCTCCTCCCCCGCCCCGTCAAAATGGAACAC  
CCCCAACTGGACCTTTCAAAAAATAACATTCCTCCCCCAAAAATGGG  
ACTTACCACAAAGTGGGATCTTCCCCCAAAATGAACACCCCTCAAAATG  
AGACCCCTCGGACCCCCCCCCAACCCTCTGCACCCATCNGCCGTCGTGCA  
CGGAAGGGAAAGGCTGTAGGGTACATCTACCCTTATTTCTTGGGTTTGTG  
TTTTGTTTTGTTGTTATTTAGAAGCAAAACCAAGACAACAAAGCCCAGCC  
AATGCCATTTCTGGCAGTGGACGCAGGCGCAGGCGGGTTGGTCACAAAG  
CAAGAAGTTGCTGCGGGACTTTGTGTTTTGGGGCCGTTCTCGTGAACCT  
CTGAGCCATGGATGAGGAAATTACTTATGCTGATTTAAGGCATCCTACGG  
GCAGTTTGCCTCCTGCTAAGCGGCGAGCGCGTAAGGGATGCTCTGTGTGG  
TGGGTGCTCACCGCAGGCTTGGTTTGGGGGCTTGCTGTTCTCTGAGAAAC  
ACCAGCAATGCTGGTTGGGTTCTGGGTCCACCCTGGCTTGTATGGGGGAG  
TAAAGGAAGGGGTGGGGGAGAAGGAAGCCTGGGAATGGCCAGAGGTGTGG  
TGGTTTT

FIGURE 10

SUIITE 3

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GTCCCTATTCCCATTGTGTCTCACATCTGCCATCTCTTCCTGTCCCCAT  
CTATGCTTTGTGCCCCCATCCCTTACCCCATCCCCACGTGTCCCTGTGG  
TGCCACCTCCACACGTGTCCCCGTGTCCCCACAGCGGGGCCGTGGCGCAA  
TAACACTGTGATGTGGCGCTGCTGCCGGGACGGAGCGACGGCGCTGCCCA  
TCCGTGCCACGTGCCAGCAGAGGGGACAGCGGGTGACGACGGCCGGGGG  
TGCCGAGACGCCTTCCTGCAGTGCTGTGAGGTGGCACAGAATCTGCGGCG  
GAAGGGACAGCGCGGGGGGTGGCACGGGGTGAGTGTGAGCAGTGTCCCC  
AAAGCGGGGAGGGGTGACCTGGGGTGGTGGCGGTGGGGTGTGGGGAGTT  
GTAGAAATGGGGACCCCATTTGGTGTGGGGAGGTTTGGATAAGGGGTCCCC  
ATGGGTGGTGGCACATGGGGACATCCCATAGCCTGGGATCCCATGGTTGG  
GGCCATCCCGTACCTGGGATCCCCACATGGGAGGATGTCCCCCGCTGTCC  
CCATGGCAGTGATGGAGGCACAGCTGGCAGAGCAGCTGTTGGATGATGAT  
GAGGACGTCCCCACGAGGAGCTTCTTCCCTGAGAGCTGGCTGTGGCGACG  
CATCCATGTTGCTGGCACTGCACGGTGTGTCCCCGTGTGTCCCCATGTCC  
CCATGTCCCCATGACTTTGTGTCCCCGTGTCCCCATCTCCCCATCTCCCC  
AGGCTCTCAGTGCTGCTCCCTGACTCCATCACTACGTGGGAGATTCAGGC  
AGTCGCCATCGTCCCTGGACATGGTGAAGTGTACCCCCCTCCAATGGCCCT  
GCAGTGTCCCCCTGACATCCCCCTCGTGGTGTCCCCATGTCCCCACGTC  
CCCAAGTTCCTATGGTGTCCCCATGTCCCCCTCTCCCCCTCCCCCGGA  
ATGTCCCTGTGTCCCCGTGGTGTCCCTGCACTGCCCCGCAGTGATGAGGT  
CCTGGCAGGGCTGTGCGTGGCGGAGCCGCAGCGGGTGACGGTGACACAGG  
ACGTGCGTGTGGCGCTTTGGCTGCCCCCAGCATCCGGCCCCTAGAGCAG  
ATGCAGCTGCAGCCCCCTCATCCACAGCAGACTGCCCCGCAGCATCAACGT  
AAGCCCTATAGAGACCCCATAGGCACCCACAGATACTCTTCCCTCTA  
ATAAATAACCACTTTGCTTCCAATAGATAACCCTCCTGCCCCATAGGTACC  
CCTGTGCTCCATACTTGCCCTGCCACAGCATAACACCCCTTCCCTCCA  
ACAGATATGCGTTGCCCATAGATACTTCTTCTGCCCTATAGATAACC  
CCTCATGCCCCACAGATTCCCGTTTCCCTTCAATTGGTACCCCTGCCCC  
TCATATATCCCCCTCTACCCACGGATACCCCTTAGACACCCGGTACCA  
CTTCTGCCCCATGGATACCCCTGTGGCACATAGATAACCGCTTCTGCCCC  
ACAGATAACCCCTTCCCTACTCCACTGTCCACAGCCCCCACTGCCCCATG  
GCCACCCATAGCCTGGTGGCATCGGGTGACAGTGACGGTGATGCAGGTGA  
CGGTGACACTGTGCGCAGTGGAGGGGGTGTGCGCGGCGCTGGATGGGGTC  
CCCCAGATGCTGGAGCTGCCCCGGGGAGGGCAGTGGCTGCACCCCTCAC  
TCTGGTGGCCCTCCACCCTGGGGACATCCCCATCACCATCACCGCCCGCG  
GGCCATGGGGCTGGGGGACCGTGTACCCGAGTCTGTCATGTGAGGTG  
AGATCAGTGGGGTCCCTCCAGTCACTGGGTACCTCTGGGGTCCCTTA  
AAGCCCTGCGACCTCCTGGACATTGTTGTCTTGTGAGCCTGCGGTACC  
CTGAATACTGGGGCTGTCACTTTGAGGTTTATGGACACCATGTCCCTGTG  
TCCATGGTGGCCCTGGACATGTTGGTCTTATGGGATCTGGGGACATGGG  
GTCCTTGGTGGTCTGATACTGCAGTTGTCTTTTGTGGACACTATGTC  
CCCATGTCTTGGTGGGAATGGTGTATCCATTCCCGCAGCCTGAGGGAG  
AGCTGCACCTGGAGGAGAGCACCTACATCCTGGACGCAGATGGTGGGTGT  
GAGGACTGGGGGACACTGGGGAACTGGGGACGTGGGGCCGGACCCTGTG  
GTGTGGTGTCCCTACAGATAAGCGGAGCCGGAGCCTGAAGCTGCCGGGGG  
ACGTCCCTGCAGAGATCGTCCCTGATGGGGACTTCAGCATGAGCATCCGT  
GTCAGTGGTGTGTGGGGATGGGGACATGGGGTGGGGACATGGGGGTGGGT  
ACTGGGAACGTGGTGGGGATGTGGTGGTGGGCATAGGGGACATGGGGACA  
TGGGAGGACATTTGTTGGGGACATTGATGTCCATCCCTGATCATCTCTCT  
GTCCCTATGTCCCCATACCCATGTGTGTGGCCATGTCCGCACGCTGTGCC  
CCTGTGTGTGTCCCCTGGGTGTCCCACATGTGCTCACATCCTTATTACA  
TCCCCACATCTCCTGTGTACAACCCCGTGTGCCCTGATGTGTGCCCTCC  
ACACATCCCCATGGGTGTCCCAATGTTCCCATGTCCCTCTGCTCATCCCC  
ATCCACATCCCCATGCCTATCCCTATCCCCACGTTCCCCCATTTCCCA  
TCCTATCCCCATGTCCCCATGCTCCATTCCTTCAATCCCTTCCACCCA

FIGURE 10

SUITE 4

FEUILLE DE REMPLACEMENT (PAGE 25)

TATCCCTGTCTTCAACTCCCCCTCCCATCCCCACACCATCCCCATGTCTT  
CTGTCCCCACACCATCCCCATATCCCCCTGTCCCCCTGTCCCTGTCCCA  
GGCCGGGTGCCGGGCTGGGCACTGCAGGGCGCTCTGGGGATAGGGGACTC  
TCTGCTCCGCTCCCCCGGGGCTGTGGGGAGCAGTCCCTGATGTCAATGG  
CACCCTGCTGCTGCTCTGCGCTTCCTGGATGAGAGCGAAGGGTGGGGG  
CAGTGCCCCCAGGGCACCAGACAGCGCGGCCCTCAGAACCCTGCAGCAGGG  
TGAGCTATGGGGCAGGTTGTGCTTTATGGGGTGGGCAATGCTTTATGGGG  
TGTGCAGTGCTCCAAGGGATGTGCAGTGCTTCATGGGGGATGCAGTGGGG  
TTTGATTTGATTTGATTTATGGGTTTGCATTTCTCCTCCGAGGATTGCAT  
CTCTCTATGGTGTTTGAATGGGATGTGCAGTGCTCCAGGTGGAGGTGCA  
GAGCCCTATGGGGGTGCAGTGCTGTGTAGGGGATGTCTGTGGTGTCCCA  
ATGGTCTCTGATGTCCCCACAGGCTTCGAACGGGTGCAGAGCTTCCGCAA  
AAGTGACGGCTCCTATGGGGCATGGCTGCACCGGGACAGCAGCACCTGGT  
GAGGGGAGCGGGGATGATGTGGGGACATGGGGATAGTGAGGGGATGTGGG  
GATGCTGGGGTATGGGGATGTGAGGACATCATAGGGACATGAGCGGTGGG  
GCCATGTGGATTTGGGGACGTGGTGACACGGTGTCTGGTGCAGGCTGAC  
GGCACTGGTGCTGCGTGTGCTGGCCCTGTCCCGGCCCTATTTGCCAGTGG  
CTGCCAGCGGGCCCGCTGCGTCCCTGCGGTGGGTGCTGGGGCAGCAGCGC  
CCAGATGGCGCCTTCTTGAGCACAGGGCTGTGGTGCACCGTGAGATGCA  
GGTGGGTGACACATCACTGCTGTGTGCAATGTCCCATGCAGGATCTCCC  
CCTGCAATGTCCCCTGAAGTCCCTGCAGGCTGACCCACATTACACTGT  
GTCACTACGTGTCCCGTGTCCCCAGGGTGGTGTGGCAGACCCCGGCC  
GGAGGCCACCGTGTGCTGACGGCCTTCGTGGTGGTGGCCCTCCATGGTG  
CCCGCGCTCTGCTGCCCCCGACAGCCCTGAGCTGCCCTCCTGGTGAGT  
CCCATGTCCCCACCCCTGTGTCTTGGTCTCATATCCATGTGTCCCTTGT  
GCCCCATCCCCAAATCCCCACATCCCCCATATGTTCCCATACCCTGCTG  
TGTCCCCCAGTGTTCCCCCGTCTTTCATTCTCCACTATCCCCCGTATTC  
CCATATGTCCCCCTGTCCACCAAGTGTCCCTCATCCCTCTGTGTCCCCCT  
GTCCCCCAGTGTCACCGTCCCTGTATGTCCCCATGTCTCCTAGTGTG  
CCCCATGTCCGTGTCTCCAGTATCCCCCATGCCTCCCGTGTCTCTTCA  
TGCCCCACACTCCACGTCCCCACACTCCATGTCCCACTGCCACAGGACAA  
ATCCCTGTCCCGGGCCTCCACGTTCTCCGGGGCCGCGTGGAGCAGTTGG  
GGACCTATGGGACAGCCATTACATCCTATGCATTGGCACTGGTGGACACC  
GCTCCTCCGGGGCCGATCCGGCGGTGGAACGTCTGCGGGGCATGGCCCG  
GAGCGCCCACGGTGCGTCTGTCTGTCCCCATGGGGTGGTGGCACCTCT  
GTCCCCATGGCTGCCTCCTGGACCCCTCTGTCCCTCCTTCAGATTCACT  
CTCATTGCAATCCTTCAATTTTATTCTCCCTCAAATCCTTCTTTGTA  
TTCTTACATTCAATCCTATTCAAATTGCTCTCCTTCTGTCTGTTCTTC  
TTCAAATTCTTCTTCAATTTTGTCTCCTGATTAATTCTCTTAAATTA  
CTCTCGATCAAGTTCTGCAGATTCTGTTCCACTTCGGATGGATTCTTCTCC  
AACTGTTCTTCAGATTCACTCTCCTTCAATTTCTGTTCTTGTAAATTA  
CTTCTTCAGAGTGATTCTTCAAATCCTTCTTCATGTTCTTCAAGTCCA  
TTCCCTGCACTGACTCCGGGTGCTCAGGACCCCCCGTGACCCCATATGA  
CCCCATATGAACCCCCCATGACCTCCACAAAACCATATGACCCCGTGACC  
TCCCATGACCCCTCATGACCCCATATGACCCCATGACCCCATCCCTGT  
GCAGGTGGCCGTGCAACCTTCTGGCCATCCGGTGGCCCCGCAGCCACGGT  
GGAGGCGACGGGTACGCCCTTCTGGCACTGCTGCAGAGCCGCGACATCG  
CGGGGCTGCGAGGGCGGCACGGTGGCTCCGACAGCAGAGCAATTACGGG  
GGTGGCTTCCACTCCACGAGGTGGGTGGGGTCACTGACCCCGGGTG  
CCTCGGGGTGGGGGTGATTTGATCCCCAGGTACCTCTTTGGTGGCTGTGT  
CCCCAACCTGCTTGGTGTTCGCGCAGGACACGCTGGTGGCCCTGGAGGCG  
CTGGCCAGATGTGGCTGCACTGGGGCCGTGGGAACACAATGGGGCTGAA  
CCTGGGGCTCTCCTGGCCGGGGGTGCCCGGGGGAGGGCTGGTGGCACTC  
AGGTTATGCTGAAGCCGGGGCTGGAGCCGCTGGAGCAGGAGCTGCAGGTG  
GGGACATGGCGGGATGTGGGACACCGGATCTGAGGACACTGGGGACA

FEUILLE DE REMPLACEMENT (REGLE 26)

FIGURE 10

SUIITE 5

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TGTCTGGACTTGGTAGGATGTAACATGAAGACACTGGGGACATGGTAGGA  
CATGGGGGACATGAGAACACGGGATGTGGGGGACATGGTAGGACATGATG  
GACACAGGGCTTTGGGGTCCCTGGGGTCCCTCGCTCTGTCCCCATGTCCCCA  
GGTGCCTCTGGGCAGCCCAGTGACAGTGCAGGTGGAGGGACACGGCGAAG  
GGACGCTGACGGTGGGTGGCTGCATGGACATTGGTGTCTCTCCAAGACC  
GATGTCCCCCTCACAACCTCCCCCTCATGGTGTCCCCCTCATGCTGCCACGGT  
GTCCCCTGCTGTCCCATCATGGTGTACGCTGTCCCCAGGTGCTCCGCCA  
GTTCCGCCTGCTGTACCTCCGAACGCCACGTGCCAGGCGCTGCACCTGG  
AGGTGGCCATCACCGGCCCCATCCTGTACCATGGTGAGGCCCCACCCAAA  
GGCCCCGCCCCCTTTTCTCGCGGGGGGCGTGCCCTCAACCCTGTTTTGC  
ATATCCCAACCCCCAGCAGATGAGGACTACGAGGACTACGAGGACTACGA  
GGAGGCGGAGCCTAAGGAGGGGGAGGAGCCTACGGAAGGGGACAGTGCCCCG  
TGGAAGGGGGCGGGGCCAGCAGATGACCCCGCCCCCTCAGCCCCGTGTCC  
TTATGGGATGCCCCGTAAGCGGCAACGCCGAGCACACATAACCCCTGCCCA  
CGAGGTGGCCTTCTGGTCTGCTTCCGGTGAGGGGCGGAACCTCCTGTCC  
CTGGGGGCGGGTCTTCTGCTGATGGGCGTGGCTTATTGCTGAGGGGCGT  
GGCCTGTTGTAGGCGGAGCCCAGGGGTGGCACTGACTGGGATGGCGGTGG  
TGGAGATCACTCTGCTCAGTGGCTTCTACCCCATAGAGCTGACCTGGAC  
AAGGTAGGGGCCCAGGGGGACTTGTGGGACATGTTGGGGGGTTGAGGGGA  
GTTATGGGGTGTGGGGTTTGGGGGTGTTGGAGTTGTTGAGGTGGCAGAAT  
GTTTGGGTGGAGTCATGGGATATGGGGCTATTGGGGTTTGGAGGTGTTG  
TGATGTTGGGAAACATTGAATTGGGGTTGTTGAGTTTGAGGGTGTGGGG  
TGTGCGGGTGACAGAGCTGCAGCTGCTGGGTGGAGTATTAAGGTGTTGGG  
ATGTTGGGGTGTGGATGGCTTGGATGCGGGTGTGGGGTGGGCACGTAT  
CTGGGTGCTGCTGTCCACAACAGCTGCGGGACGTGGTGGATCACTGGAT  
CAGTCACTATGAGTTGGAAGGAAACCAAGTTGGTGCTATACCTGGATGAGG  
TGTGTCCTCCCGTGTACCCCTATAACCCAGTGGCCCCATGTTCTCATAT  
CCCCCATGTCCCGTGTCCCCACACCATATCCCATTCTCCCCACACATCC  
CCGTGTTCCACCACGTGTCTCATTCTGTCCCTGTCCCCAGGTCCCCC  
CGAGCGGCAGTGTCTCAGTTTGGGGGCCACCCAGGACGCGGCTGTGGGTG  
ACATGCAGCCGGAATGGCAGCCATCTATGACTACTATGAGCCTGGTGGG  
TGGGGCCTTCAGTGGGAGGGGCTAAATGGGTGGTGGTCTTCATGGGTGT  
GACCATTGGAGGAGGCGTGGCCGATCTGACCCCTCCATGCCCCATCCAGG  
ACAGCGCTGCACCGTCTTCTACAACGCCCCCAAAGGAGCAGCACCATCG  
CCACACTGTGCTCCCCCAAATCTGTGAATGCGCCCAAGGTAGGACCCCA  
CTGTGACTCCATATGTAGGGCCCCCATCCAGTGAACCCCCACATCCTCCT  
CCTAATTTTTGAAGATCTGGGGGTGAAATTATGGGGTTTATAGGGGAGCG  
TGGTTGAGTGACATGCAGGACATGGAGGGAACCCACACCAAGAACCTTGT  
GTTTTGGGTCCCTGATGATGTTGGGAGATCCTATTGATGTTGGTGGTCCC  
CAGGGGGGTGTCCCCAAGCCCCAAGGAGGACACAGGAGGTGACAGCTGAT  
GACCGCCATGACTTTGCCTGCTACAGCCCCCGCTGGACTATGGTGAGAT  
CCCAAATCACTGCACCTCAAACCTGACCCCAAATGGCTGCATCCCGAAC  
CCCAACTGCCCTAAATCCCCTGCTGCCCCCTGAGTCCCACAGCTGCACA  
CTGTACCCCAACAAGTGGCCCCCTGAAGCCTAAAAACATTACAGAGGATTTT  
GTAGTTTTCTCCCTGTACCCCAAGTTGTCCCTCTGACCCCAAGAACCCAC  
AGCTGCCCTATGCTGTCCCCTGCCCCGACATAACTCCTCTGATACAATAAC  
CCCCGTGACCCCATCTTTATGACCTCCATGACCTTTGACCCCAAGCACTG  
GTGGTTCCGGTGCTGTCCCAGAGTGAGATAGGGGCTTTGTGGCGTTTGA  
GACGGAAATCAAGGAGGTGCTGCTTGAAGGTGAGACTGAGGGTAGTGGA  
CGGACTGGAAGGTGAGAATGGGAGCACTGGGAGAGGCAGGGAGTACTGAG  
AGGGACTGGGAATGACTGGAAATTGAGACTGGGTGGACTGGGAACCTCTGG  
TAGAGACTGAATGGGTATACTGGGAACACTGGAAGAAGTTGTGGGATGAG  
AAGAGGATGCTGGGATAGGAGACCCCCCTTGTGCTAGGGGGGTCTCT  
CAGCCATACTGGCACAATATGAGAGTATACTGGGTGGTACTGGGAAAGCT  
GGGAGGACTCATACTGGT

FIGURE 10

SUITE 6

BREVET D'INVENTION (RÈGLE 26)

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CCCCTGGGGAGCGGAGGCGGCTGCTGGTGCGGAAGAGCTGCCCCACTGCGC  
CTGCAACTCCACAACATCTACCTGGTGATGGGGGGCAGCGGGAGGACGCG  
GGACCCTGAGGGGCGGTGAGAAGGGGCTGTGCCCCATGTCCACATGTCCC  
TGTGTTCTCATGTTCCCATGTCCCATATCCCAGTGTTCCTAACCCCATAT  
CCTTGACCTTGAGCCCATACCCTGATATCCCTGACCCTGTCCCCATTCTC  
AGCCCCCAGTTCCTGCTGGGCCCCCACTCATGGTTGGAGGAGGTGCCATC  
CCCTGGACGCTGTAAGGCCACAAGGTTGCGGGGTTACTGCGCCCAACTGC  
AGGAGTTCCGCACCCGCTGAGCCAACCTGGGCTGCCAGCTGTGAGCCCT  
GGGAGCCACTGGGAGCATGTTGGGTGCAGCTGGGACCATTCTGGGGGTGA  
ACTGGTACCCTGTTGGATCAGTTGGGATCAATTGGGAATAAACTAGTGT  
TGACTGGGACCGTGTGTGACCAACTGGAAGTGTGTTGGAAGAACTGAG  
AGCTGCTGGGGTTGAGTGGGAGCAACTGGAAGTGTGTTGGAACAAACAGG  
GGACCAACTGGGATCACACTGTGGTCAGCTGGGATCACACTGGGTCAAAA  
AAGATCACAGTGGCCCAATTGGGGTCATACTGGGGTGAGCTGGGATCAGA  
ACGAGTTTAATAAACGTACAGTCGTCCGAGCCACCACAGAGTCAGCCCTC  
CAGCGGCGCAGAGCGGCGCAGCGCGCACTGGCTGCCCGCGGTAAGCGGAT  
GTGACGTCACTTCGCGGCGCGCTATTTCGAACTCCAGCAGCGCCCCGCGGA  
GCGCCCCAATGCCGCGGCCCAAACCGCGCAGCCCCCGCGCGGGGCCG  
CCCCCCCCCGCGCGCCCCCCCCCGCCACCCCCCGCGCGGCTCGCGGTGAGT  
CAGCCCGTAGGAGTGCAGAGTGTGGGGGCGGGGGGGGGGCGTCTGGAGC  
GGAGCCTTTATCACCGCTGTTTCCCGATTTCCTCGTCTTTTCGCCCCGT  
TTCAGCCCGCGGTACCGGCCCGGTGAGAGGCGCTGCGGGAGATCCGCC  
GCTATCAGAGCAGCACCGCTCTGCTGCTGCGCCGCCAGCCCTTCGCGCGC  
GTGGTAACGGGACTGCCCCGGAACGGGACACCCCCCAACCCCCCAACGG  
GACCATCCCCCACGGATGGATCCCCCCCCACACACATCCAACGTGGGAC  
CCCCCGCCCCAAAATGAGATCTCAACGTGAGATCTGGGGGCGCTCAAAATG  
AGACACTCTCCCCCTCCCCCAACGGAACACCCCGAAAATGGGACCACAC  
ATAAAAGTGGGGACTCCCCTCCTCCCCCCCCGCCCCGTCAAAATGGAACAC  
CCCCAACTGGACCTTTCAAAAAATAACATTCCCCTCCCCCAAAAATGGG  
ACTTACCACAAAGTGGGATCTTCCCCCAAAATGAACACCCCTCAAAATG  
AGACCCCTCGGACCCCCCCCCAACCCCTCTGCACCCATCNGCCGTCTGCA  
CGGAAGGGAAAGGCTGTAGGGTACATCTACCCTTATTTCTTGGGTTTGTG  
TTTTGTTTTGTTGTTATTTAGAAGCAAAACCAAGACAACAAAGCCCAGCC  
AATGCCATTTCTGGCAGTGGACGCGAGGCGAGGCGGGTTGGTCACAAAG  
CAAGAAGTTGCTGCGGGACTTTGTCGTTTTGGGGCCGTTCTCGTGAACCT  
CTGAGCCATGGATGAGGAAATTACTTATGCTGATTTAAGGCATCCTACGG  
GCAGTTTGCTCTCTGCTAAGCGGCAGCGCGGTAAGGGATGCTCTGTGTGG  
TGGGTGCTCACCAGGCTTGGTTTGGGGGCTTGTGTTCTCTGAGAAAC  
ACCAGCAATGCTGGTTGGGTTCTGGGTCCACCCTGGCTTGTATGGGGGAG  
TAAAGGAAGGGGTGGGGGAGAAGGAAGCCTGGGAATGGCCAGAGGTGTGG  
TGGTTTT

FIGURE 10

SUIITE 7

45/110

Conti131.txt

AGAAGAGCCCCGTGATGTCCTCCAGGTGCGGTCCCTCGGTGCCTGTGGGG  
ACAACGACAGCCCTAAGCACAGTGTACCATCCTGGGTGGGGTCCCCAAC  
CCAAATCCATGATCTCCATTGTCCCAGGCCATGGTCCTGATGTCCCTCA  
GACCTCCTAACCATGGTCCCAGCATCCCAATACCTCCACGTGTTTCAA  
TATCCCCACATCCCCCTCACCAGCCAGGAGCAGTCGGACGGAGACACGC  
ATTGGTTTGGCCAGTGCAGTGTGGGTGACAACGCAGCTGTAGATGTCCCC  
GTGGTGTGGGGGCGTGCGGGGATCAGCCGTGCTGCCGCCGTCCGGCTGT  
AGGTTCCATCGGCTGCCTGGCGGTGACCTGAAGTCCAGCTGTCCATCACT  
GTGTCCCTGGGTGACTGTGATGTCCCCGAGCCCCGGCGCGGCGCTGCCA  
CGTCACCGTCACATCCAAGGGGTAGAAGCCAGACACGTGGCAGCGTAGCT  
CTGCTGACGTCCCCGGGGCCACCACCAGGTTCTTCGGGGACAGCGTCACC  
TTGGGGGGCTCTGGGAGACATGTGGGGGGACATCGGTCCCATATAGCCCA  
TAGGGCCCCTCCTATAGGGCTCATCCCCCCTATAAACCTACAGGTGAAC  
TATGGGATGATGCCACCCCATCCTATAGTCCTCATAGGAATACCACCCGG  
TCCCATCCACCCTATAGCCTCCATAGGAATACCACCCAGTCCCATCCACC  
CTACAGCCCCCACCAGGAATATCACCAGTCCCATCCACCCTACAGCCCC  
CATAGGAATACCGCCTGCTCCCATATGTCTATCTGACCAATAGGAATAC  
CACCCAGTCATACACACTCCGTAGGAACACTGCCCAACCCACACCCCAT  
AGGAACACCGCCTGCCCCACATGGACGCACCAAGACGTGGAGCTGCAGC  
ACTGTCTGTGTGTGCCCGTGGGGCAGGAACACGGAGCAGATGTAGGTGCC  
CTCATCCCCCGGTGATGGCCGCGCCAGCCGCAGTGTACCGCTGTCACCC  
CGTCCCCATCCCGTGTCCCCAGCAGCAGTTCGGCCCCGGGGGTGGCGCGG  
GGGGCGCGGGCGGTGGAAGTGTATAGG

FIGURE 10

SUIITE 8

46/110

AB1B3FOR.txt

CCAACTTCCTTTGGTTTCAGGGAAGAAGACTCACCCACTGCTTTGGTTTGT  
TGCACTGGAAAAGCATGAAGAAAGCACCACATGATGAGAGGAACAGTTCA  
TCCCACAGCTCACGCAGGAAGAACCATTATTTAATTTAATTTGGGAGGGA  
GCACTCACCCAGGTCTGAAGCTAGTTTATCTGCAATGAAACAAATAAGAA  
ATGCATGATGAGAAGGGTCAGAATATCATCCCATGGCTGATCCCATGGGA  
AGACCCCGAATCTCTTTGGTTTGCGGAGGAGGACTCACCCAAGTGTGCAT  
TCCTTCCCTCTGCAAAGGGAAAGCAGAAACAGTG

FIGURE 10

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SUITE 9

47/110

AB1C1FOR.txt

TGGGATCAAGTTGAGTAGACATAGCATCCTCGCTTTTAGACAAGACCTGC  
ACAGTATACCACCGTTTACTGTGCAGATAATGACCAAAAGCAATATGCGT  
CACACTTTTCTGGTGACAACGTCACAAAATGGCGGTCGTCAATCGTGACG  
AACAGCACAAACGCCCTTTCTCATCGAAGATTTCAATCTGCCAGACCTGG  
TGACGCGAACCGAGATGCAACGGTTTGCATACGCCGCGCACCCGCCCTTC  
TCGTGCCGAGCGGACGTGGTTAGCATTGATTTCCAGACCAACCACTTTTT  
GCTCACCTTCGGTACATAAATAACCGGCAACGGAACCGATACTTTCGGCC  
ATTACCACGGGTGCTCCTCCATGCAGCAACCCGAAAGGCTGCTTTGTCCG  
CGAGTCTACTGGCATTGTCGCTTCAAGGGTGTCATCACCAATATGTTCAA  
AGCGAATATCCAGGAACCCACCATGTTTCCTTCACCCATAGCATTCACT  
GCTTCCAGGGTGATTTTCCGTTTCCAGATCATTTAATAATCTCCAGTTAA  
AGCCTGCACAGGATGGCTTACCCCGTGCCTTCAACCCGTTTTATCTGGCT  
ACGGCAAGGAATATCCGGTT

FIGURE 10

SUIITE 10

48/110

AB3A11RE.txt

CCGTCGCCTCGGCTCTCCCTCGGGCTCCACCCCCCGTTCCGCCCTTTG  
CCGCCGCATCTCCCGCTCTGTACCCTCCCCAAGAAGTCGCTCAGACGGCG  
TCGCGTTGTCTGCACATCCTCGGGGACCGTCTGTTGTGCGGCAGCAGGGG  
AGGGGAGCGGGCGGTCTGTGCTCTTCTATTCCCTTCAGTACAAGAAGGTG  
GTTTGGGTTCTTTAACC AAATATACTCTTTTGTTTTGCATAAAATCACC  
AGAAGGAATTGGTCTGTTGAATATATAGGAGTGGTGGAGAGAGTCGAAGA  
AGTGTTCCTGTGACAAAACACCGTTAAAAGTGAATTCATGGAGAACGCA  
CTGCAGTGACACAGAAGGGAAAACACGAAACATAAATAATTTGCCGATTT  
ATCATCGATTTTCAGGGTCCTTTGGGCTGATTGCTTTCCAGTATTTCCCT  
TTGGAGAAAAACCGGTGAAAAATGG

FIGURE 10

SUIE 11

49/110

AB5B6FOR.txt

TCACCTGGCTTTGCTGCTCCAGACCCCGCAGGAAGCGACCCCCCTGGCCC  
CTGGCATCCCGCAGCCCCACACGCAGCTGTGCACGGCCCCACACTGGCGC  
CCCATCTGGGAATCTGGGGGTCCAAAGGGTCAGTGGAGTCAGGCGGGTCC  
AAAGGTCAGTGCAGTCAGGAGGTCCCCAGATGTCAATAGGGTCAGGGGGA  
GGGATCCCAAAGGCCAATAAGGTCAAGGGGAGAGATTCCAAAGGTCAGTA  
GGGTCAAGGTGCCCCAGAGGTCAATAGGGTTGGGGGAACCCAAAGATTAT  
AGGGTCAAGGAGTGACCCCAAAGGACATCAGGGCCACTGATTGTTGGGTGG  
ATGGGAGAGGAATTTGGGGAGTTCAGGAGAGTTGGAGGGGATTGTTGGGAGG  
TTTTGGAGGAGACAGATGGGGATTTTGGTGGGAATTTGGGGAAGATTGGG  
TGGGATTTGGGATTTGGGTGGGATTTAGGTGGGGATTTGGGGGGATTTTG  
TCTCTGGGTGTCCCATAC

FIGURE 10

SUITE 12

50/110

AB6E4FOR.txt

CCTGAAACTTTGGGGTGAGCATCTCCATCAGCTCATCTGCAATGCAATGG  
GATCTTCCAGTCTTTGGGTTTTGTGCTCGTTGTGCCACTATTTTCATGGC  
ATCCTAAGATGGTGCTGTATTATTTTGTGACACTGTAAGAGACTGGAGC  
AGAAATTTTGTACAAATTAACAAAAAAAAAAAAAAAAAAAAA

FIGURE 10

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SUITE 13

51/110.

AB6G8REV.txt

GTTCTATGATTTCTTTGGTCCGAATACCATGAAATCTGATATTTCCATTT  
CAGTATCTGAACTGGGTTCTCTGCTGGATCACAGTGGTCCACACAAAGAA  
GCAGAACAGTATATCGCTCGCGTCTTTAACGCAGACCGCAGCTACATGGT  
GACCAACGGTACTTCCACTGCGAACAAAATTGTTGGTATGTACTCTGCTC  
CAGCAGGCAGCACCATTCTGATTGACCGTAACTGCCACAAATCGCTGACC  
CACCTGATGATGATGAGCGATGTTACGCCAATCTATTTCCGCCCCGACCCG  
TAACGCTTACGGTATTCTTGGTGGTATCCCACAGAGTGAATTCCAGCACG  
CTACCATTGCTAAGCGCGTGAAAGAAACACCAAACGCAACCTGGCCGGTA  
CATGCTGTAATTACCAACTCTACCTATGATGGTCTGCTGTACAACACCGA  
CTTCATCAAGAAAACACTGGATGTGAAATCCATCCACTTTGACTCCGCGT  
GGGTGCCTTACACCAACTTCTCACCATTACGAAGGTAAATGCGGTATG  
AGCGGTGGCCGTGTAGAAGGGAAAGTGATTTACGAAACCCAGTCCACTCA  
CAAACCTGCTGGCGGCGTTCTCTCAGGCTTCCATGATCCACGTTAAGGTG  
ACGTTAAACGAAAGAAACCTTTAACGAAAGCCTACATGATGCACAACAAC  
AACTTCTCCG

FIGURE 10

SUITE 14

CCACCACCGCTTTGGGCAGTGCCAGTGCTCCTCACAGGCTGTGGGGCAGA  
GCAGGTGACCCCCAAGGATTTCCTTACAAAGAGCCCCACAGAGACAGA  
AATCCTTACCTTGAGCTGCAGCAAGCGCGGGCTACACCCAGCATCAATC  
TTTGCCAGCTTCTACCTTTGCCAGCTTCTACCTTTGCCAGCTCCAGG  
GTGCAATGCGAGCAACTTGGCATCAGACCAATACAGTCAAAGGTTGGAGA  
ACATAAAACACATCCCATTTGCAGCTTTGTGCACCACCCTGGGTCTCTGCT  
ATCACCAGGAACATGGACACAGGAGAAGCTTTGCCATAGCACAGGAGAAA  
GCTGTGCGCTGCACTTCATGAGCATTTCTCTCAATTTCTCCTGTATCCCA  
CAGGTTACAGGCACCAGTAATTCTGCCAGAGCTATTCTGAAGGGGCACGTG  
GTGAAGGATTATGGCTTGGAGCAGTGGGGAGAGCCAAAAGCCCTTCCCAC  
ACTTGATGCACTCCAAGGGTGTGATCCCAGCATGCAGCCTCTCATGTTGG  
AATGGTCAATTTTATCCTAAAATCCTCTTGCACTTGGAGCAATGTTGAGT  
TATTTTCCCCATGTGCATTACAGTGAGGTCCCCCTGAAGCCTACTCTTC  
TCCAGGCCAATTTCTTATGATCACGAAGGGGATGATATGATGGTGACATGG  
GGGATTTCCACGTGGATGCTGCAGGGCAGATGGGGAAGGGGTGAGGGGAG  
ATGCCCACCAGCAGAGTTCCCAATCAGGACACAGCAGTTTTGTGCCAGC  
ACCAGGAAGCAGCTTCCCCTCCTTCCCTGCTGGGAAATCACTCCTTTGG  
AATGTTTTTTTTTTCTGCTGCTCACCCACATTTTGACAGGGCTGATCT  
TCCAGGTGAGCCCAAATCTGCATCCCCGCACGGATAACCTCTCCCTCCC  
TAAGAATCAGTGATCCTGCCTGCCTGCAAAGCAGCTGCTGAGATGTCTT  
TTGCAGCCCTTATTCCCGCAGACCCCGTGCAGAACCACACACATCTCCAT  
CCTCTCCTCCGTTGGCAAGGAATGGGTTTGCAAAGGGATGGGCACAACCA  
GCAATATGCAAAGGAAGAGGTGTGAAAGTCTGGGGAGCAATGAATCTGT  
CCCCCGGAAGATGTTTCCATGGGGCAGTTAAGGAGGAGAATTGGAAATGA  
AGCAGATGATGCAGCAATGAACTATCCCAGAAAAGGGGGGAAAAGCAAT  
TCTGGTAATGAAGATACATAAAGGAGAAGGGCTTCTCGCTGTCTGGACGC  
AGTTCTGTTGGTTAACGTCTTTTCTCTTTGTGCTCTTTGCACTTTTTTCT  
TTGCCTGCTCTGGTCAGGATGAGGCAGAGCCCTCACGGGGCCCTTTCACA  
CCTTTTTTTTAGCACACAGAAGCGCAGCGGCCGTCTCAGCACCAGCATCG  
ATGAGAAGGGACTGCAATAAATTAATGCGTTACTGAATAGACAGTCGT  
AATTAAGTCAAACCCATCCCCCTCCAGTATTCCAGCTGCCGAGGCATC  
GGTTGGCACAGAATCACCAATATTGCCTTTCTTCCCCATCCCCGCTTA  
TCAGCCAATGCTCTCTGACCCCTAAAAGGTCTCGATTTGGGGTCTTTTTG  
TTGTTGTTGTTGTTGTTCTGGGTATTTTTAGGCTTTTATTATCAGCGATT  
TTTCAGCTTCTCACTGCTTACCCCCAGCTCAGCACCAGCATCGCTCACTG  
CCATCGCTGAACCCAGCGGCGTTTCCATCCCTCAGAGAGCAGCAAAATGA  
GACATCGGCCGTCGTGCACGGAAGGGAAAGGCTGTAGGGTACATCTACCC  
TTATTTCTTGGGTTTGTGTTTGTGTTTGTGTTATTTAGAAGCAAAACCA  
AGACAACAAAGCCCAGCCAATGCCATTTCTTGGCAGTGGACGCAGGCGCA  
GGCGGGTTGGTCACAAAGCAAGAAGTTGCTGCGGGACTTTGTGTTTTGG  
GGCCGTTCTCGTGAACCTCTGAGCCATGGATGAGGAAATTACTTATGCTG  
ATTTAAGGCATCCTACGGGCAGTTTGCCTCCTGCTAAGCGGCAGCGCGGT  
AAGGGATGCTCTGTGTGGTGGGTGCTCACCGCAGGCTTGGTTTGGGGGCT  
TGCTGTTCTCTGAGAAACACCAGCAATGCTGGTTGGGTTCTGGGTCCACC  
CTGGCTTGTATGGGGGAGTAAAGGAAGGGGTGGGGGAGAAGGAAGCCTGG  
GAATGGCCAGAGGTGTGGTGGTTTTGAGCAAAAATCAGCCCAGATCGGGA  
AGCCCAATGTGAGAGAATGGAATGAAATGGTGGCAAACGCACCCTGCATC  
CACGTGGCATGAGGGCTGCAGACATCCCCGCCCTCCCAGCCACCGGCTGC  
CCCACACTGGGCTCAGCTCACAAAGCCTGGGGGCTGCTCAGCTTCCACCC  
CATGCTCTATGGAGCCTGCAGGGCCTCCACCACCTCCAGAACCACACGTG  
GAGGTGATGTCCCTGTGTCCATCTGACCTCCAGCGGGAGCCCATCCCATG  
CTCCCTGCTGCTGTACCCCTCTGTGCCACCTCCTTCCCAGCTGGGAACC  
ACTGGGAGCCACTGGGAAGGGTCCAGGGGACCCTGGAAGTGGAGGAAAAC  
AAACAGGCATCACTTCTGCTCATACACAGCATGGGAACCAATGGGAAGG  
GTCCGGGGACCCCAAT

FIGURE 10

SUITE 15



54/110

B5FOR.txt

ACGCGTGGTTCTGGAGGTGGTGGAGGCCCTGCAGGCTCCATAGAGCATGG  
GGTGGAAGCTGAGCAGCCCCCAGGCTTTGTGAGCCGAGCCCAGTGTGGGG  
CAGCCGGTGGCTGGGAGGGCGGGGATGTCTGCAGCC

FIGURE 10

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SUITE 17

55/110

B5REV.txt

CCCAGAACCCAACAGCATTGCTGGTGTCTCTCAGAGAACAGCAAGCCCC  
CAAACCAAGCCTGCGGTGAGCACCCACCACACAGAGCATCCCTTACCGCG  
CTGCCGCTTAGCAGGAGGCAAACCTGCCCGTAGGATGCCTTAAATCAGCAT  
AAGTAATTTCTCATCCATGGCTCAGAAGTTCACGAGAACGGCCCCAAAA  
CGACAAAGTCCCGCAGCAACTTCTTGCTTTGTGACCAACCCGCTGCGCC  
TGCGTCCACTGCCAGGAAATGGCATTGGCTGGGCTTTGTTGTCTTGGTTT  
TGCTTTTAAATAACAACAAAACAAAACACAAACCCAAGAAATAAGGGTAG  
ATGTACCCTACAGCCTTTCCCTTCCGTGCGCAACGGCCGATGTCTCATT  
TGCTGCTCTCTGAGGGATGGAAACGCCGCTGGGTTTACGCGATGGCAGTGA  
GCGACGCGGTGCTGAGCTGGGGGGTAAGCAGTGAGAAGCTGAAAAATCGC  
TGATAATAAAAGCCTAAAAATACCCAGAACAAACAACAACAACAAAA  
GACCCCAAATCGAGACCTTTAGGGGTGAGAGCATTGGCTGATAAGCG  
GGGATGGGGGAAGAAAGGCAATATTTGGTGATTCTGTGCCAACCGATGCC  
TCGGCAGCTGGAATACTGGGAGGGGATGGGTTTGAATTTAATTACGGCT  
GTCTATTAGTAAGGCATTTAATTTATTTGCAGTCCCTTCTCTCCATGC  
TGGGTGCTGAGACGGCCGCTGCGCTTCTGTGTGCTAAAAAAGGTGTGAA  
AGGGCCCCGTGAGGGCTCTGCCTCATCCTGACCAGAGCAGGCAAAGAAAA  
AAGTGCAAAGAGCACAAAGAGAAAAGACGTTAACCAACAGAACTGCGTCC  
AGACAGCGAGAAGCCCTTCTCCTTTATGTATCTTCATTACCAGAATTGCT  
TTTTCCCCCTTTCTGGGATAGTTTCATTGCTGCATCATCTGCTTCATTT  
CCAATTCCTCTCCTTAACCTGCCCCATGGAAACATCTTCCGGGGGACAGAT  
TCATTGCTCCCCAGACTTTTCGACACCTCTTCTTGCATATTGCTGGTTG  
TGCCCATCCCTTTGCAAACCCATTCCTTGCCAACGGAGGAGAGGATGGAG  
ATGTGTGTGGTTCTGTACGGGGTCTGCAGGAATAAGGGCTGCAAAAGACA  
TCTCAGCAGCTGCTTTGCAGGCAGGCAGGATGCACTGATTCTTAGGGAGG  
GAGAGGTTATCTGTGCGGGGATGCAGAGTTTGGGCTGACCTGGAAGATCA  
GCCCTGTGCAAAATGTGGGTGAGCAGCAGAAAAAAGAGGAGGAGGATGGAG  
CAAAGGAGTGATTTCCAGCAGGGAAAGGAGGGGAAGCTGCTTCTGGTG  
CTGGCAGCAAACTGCTGTGTCTCCATGGGAACCTCTGCTGGTGGGCATC  
TCCCCTCACCCCTTCTCATCTGCCCTGCAGCATCCACGTGGAAATCCCC  
CCTGAAAAAGCCCATTTTGTGACCATGCATCACATTTATTTTCGCATTCA  
GCATCAGACGGACACAGGCAATGGGTGGGGGATGGGGGGGGGTCTGAG  
GGTATATCTTTTTGCTGAGCCAGGTTTTGAGTCATGGGGGATAATTCAT  
TCCAAGGGGAGGGGGGCATTTAACTGCAGGTGGTAACAATGAAAGGCAGT  
GGGAGTTGTTGTGATTGCATGGGGGAAAGCACTGGTTTTTTCCATAAATT  
GGGACTGATGTGGCTGTTGTTGCTTATTTTTATGGGGGAGGGTTGTGGGG  
TTTTTTTCCCCTATATTACATTGCATTTAATTTAGTCCTCTCTCATTGT  
CTATCCCTGGCAATGCTAGGACTTCTCCTTGCTGTTTTCTGTTGGGCGAT  
CATTGCCACAGAGGGAGGAATTGCTTTTCATTGCGGTCACTGCAATGAGT  
TTTAGCACCCAGAAATATATCCTTATGGGTCTCTGCTTTTGGGGCACTGC  
TGATGGGTGGAAGTTTTGTTTTGCAGGTGAAGTGGAAGCCCCAAAATGGA  
GGAAGTGAGGGAATATCCCCATGTTTTGGGCACAGAATGGAGCAGGAGGG  
AAGGTAACAGCCGAGCCATGCCCTTAACACATCTGTTTATTGTTATTATT  
ATTGTTATTATTTTATTGATTACTTCTTTAACTTGAGAACAAAGGGGAGG  
GATGTGGGTGGGAAGAAAATGAGTCTCATTTCTTTTAGCACTTCCCTCAA  
GGGGAATAATTTGTGTTGGTTGTTGAGCAGCAGGTGGACTTCTTGCTGTGA  
GCAGCCACATTTTGAAGAGTTCTGTTGTTATTAGCATTATTTATGCGAT  
TCTGTGATGTTTTATTATAATTAATTGTAATGAATCCTCCCTGAGGCAC  
TGGATGGGGGAAAAAACAACATTTTGGGGTCTACTGCTCACACCTGG  
GGTGCACTGTTGCCCATTTGGAGGTCCCTTCTCCATAGGTCCCAGCCGTG  
GGGCATGCGTTACCTTCCAGCTCACGATGGCAGCGGTGTTACAGTGCTG  
CTCATCACTGCTGTTGCCTTTCAGGTGAGTGCTGAGGGTTCCAAAGAGC  
AGAGAAAACCCCTTTGGG

FIGURE 10

SUITE 18

FEUILLE DE REMPLACEMENT (REGLE 26)

56/110

A52FOR.txt

TTCTCCCACAGAATCCACCAAACCCACACATTTTCAGGTCCCGTCCAGCT  
CCCTGCTCTATGCTTACCTCTTCTGCCTTCTTCCGGAGCACAGCCAGCTG  
AGACTGCAGATTTTCACACTTCATTTTTGCTTGTGTCCAGTTCCCCTTTT  
CTGTGGAAAGCTCATAGCATCGGTCCCCTAAAAGCCTCCAGAACTGGGGA  
CAGAGCAGGCAGGCAGCAGGGGCTGGAGAGAAAGAGCCGTGAGCATCTTC  
AGGTGGGAGAAATCCCACCCAGGAGGATTTCTTGGGAAGGGCATTACCT  
GCAGAGCTGTTCCATGTGGATTGGCAGAAGTACTGCTCAATGGAGGTATT  
CTCGCAGAGCTCTGTCCCATTCCTCCCGTTGGTCTCAGGGCAGTGCCGGG  
CAGCGCTTGGAGGTGGTGTGTTTCTGAAAGACTTTTGGGCACAACCTG  
GGGTGAGACGCGGCCCTATGGGGCCAACCCCGTGGAAACCACGCAGGGTT  
GGGGTTGGATCCTCGAGCTCTTTTGCAAAGCCTTTCTGGCTATGGTTGCA  
CTCAGTTAATTAAACTGTCTAAAACCATATTTTGTATATAATTAGACATG  
ATGTTTACTGCTTCTGTCCCCCCTTGGTTTAAGAGCAGAGAGGCTCTTG  
CAGAAGGGAATTCCTCTCACTGAGTGCCACTTTGGAATTGTTGTGTGATC  
ACCCAACTCCAGTGCAAAGCCCCAGCCCCACTTTGGGCAGAATGAATGT  
GTTTTCTGCTCAGAAGAGCTTCGATTTCTGTGCA

FIGURE 10

SUITE 19

57/110

H82FOR.txt

CTGCGCTGGGGATCTTGTTCCTCCCTGGCAATGGGAACAGCTGTTGGGTG  
CCTTTTTTGGGAAAGATCTCTTTATCGGTGCATGAAGAATGAAGCGACTA  
ATGGGGAATGGAAGGAGTGGTGGCTGTTTGAGTAATTGACTGATAGGTTG  
ATGGAGGGATACTTGAATTAAGAGCTTTTGGCTCTTATCTCATTGCCTCT  
GTGCACCAGGTTTGGAGTGGGCCAGGCCCTGGCACGGTCAACTTGCTCAC  
TGTTGGCAATAGGAACATTTTTTGGCCTCAGAGAGATTTTGTGGAGGA  
ATGGATGGATCATTGCTCCTGGTTTGTCTGGGGGGGACCAATGTGATG  
GATTAATTTTTTTCAGTATAAAAATAGTTTGTGAGGTGAACTTCTGGTGA  
CTGAGTGGATGGTTGGATGGAGGGATGTGAGTTTCTGTGGAGGGATGGAT  
GGTTGGAAGGTTTGTGGATGCACTGTTGAGTGCTGGTGGGATCTACATT  
TGGGGCAATGGATGGATGGACTCTGAGAATATAGACTATAGCTGAGTTGG  
CAATGACCAAGAAGGACCATTGCGTTTTTGTCTGGCTTCATGTAGGATC  
ACCCAGGAATTAACCCTATGTCATGGTTTTGTAACTTCGCTATTGGTAT  
TCCACATCATAACATCATGGACAAAAGAGAAGAATAGCAAAGTTACAAAA  
CCATGACACCCTACTTCTGAAAGCAGTTTTGAAATGCTTGGGGAGCTGAA  
TGGTTGATGGTGTGGTGGAGTCTGGGGGGGAGGTGTCCCTGTGGGGCAG  
TCCCTGGGAAAGCTATAGCTATAAGTCACCCCAATGCCCCCTCTGTGTGGG  
AGTAGTGTGGGTGGGGGTCACTGGGATACCACAGTGGGGTGGAGCCCAGG  
GGAGTGTCTTTGAGGTGAGTGGGGGGTGGAGCAGGGCTCTCTAGAGGCCTT  
TGGGGGGTCCAAAAGGAGTTGATGAGAGAGAGAGTGTGGGAGATCCATGG  
GGGGCTGCAGGCCCTCAGTGCCCTCCATCTCTGCCAGGTGCCCCAGGAA  
CACTATGGGTGGGGACACTGTGGCCCCGAGTGCTCACCTGCATTGGGCA  
CCTCCCCATGTCCCCCTGAAGGCTACAACCTCATCTATGGACCCCCCGG  
TGGCCCCGTGAAGGTAATACCCCATAGCACTCCCTGAACTTCCCAGGGGA  
TCTCCCTGGGTATCTCCTGGGGTACCCCAACCCTCCTTGGGGACCCTGCT  
CCCACCTTGGGGAATCCAAAAGTCCTCCACCACCCAAGCACCTAAGAAC  
CCCCTGCACCCCACTATCCCTTGGAGTCCCCAATACTCCTTTTACAGCA  
TTCCCATCCTCCTCCTTGGCCCCCTTATGCTCTCCAGAGACATTAAACAC  
CCTGTAAATGGCCCTTAGGGACCCCTGCAGCAGCCCAATAATCCTCCCAT  
GTCTACCTCCAGACACTGCAGCTGCCCCCTGAAGCAACATCCAAGGAGCT  
GTGGGGCCTGGAGCCAGTGGACGCTATAGGGTGCAGCTCTGGGGCCGGG  
GGCTGGAGCCCCTTGGAGCACCTTTGACACCCGTGAGCTGGGAAAGGGG  
GTCCTGTGGGTGGGAAGGGGCACTTGGGTGGAGGACTCTGGGATACCCA  
AATACCTGGATGATTTGGGTGCTGGGGACATATGGATGCTGGGTCTGA  
AGTATGGAGGGGGGTACCAAGGAATCTGCATCCTTGGGTGGGGAGCTCTG  
GGGGTTCCCAAGTACCTGAATAATGGGTACCTAGTTAGGGGAATGCCTTG  
GGTGGGGGGGGGGCGGACACAGCGGGATGCCCTCGTCCCTTGGTAGGTG  
AACAGGGACACCCAACCTGGTGGGGCACCTACACTGCTCTGTCCTTCA  
CACCCCTCCCCACCCACATCCCCGGGACTGCGCTGAGGAGCAGCTCAAT  
GGACCGGGCCTTCACGAGAGGTCTCATCTTCTCGGGGGCGACCGGCA  
GCGGCCACTGCACGTCTTCTGCGACATGGAGAGCAATGGGGGCGGCTGGC  
TGGTGGGGAAACGGGGCGGTGGGGAGGGTGTCTGGTGGGCTCTAGGGGGT  
GCTATGAGGAGTCTGGTGGGCAATGGGGGTACAGGGTGGGGTGGCTGAC  
TCCATGGTTGCCATTATAAGGGTTGGATTGGCAATAAGAGACCTGTGGAG  
CAACTGGGGGCATTTGGGGTATCTGGGGAGGTTCTGTGGGGGTGAGAAG  
CAATGGGGGGGGGAGTGGGGGAGGCTGGAAGATTTAGGGGAGGTTAATG  
GGAAGGTTCTGTGGGGCAATTGGGGTAATTCTGGGAACTGCAGGGGGATC  
CCAGTGTTCCTGTGAGATTCACATACCCCTATACTATCCATGGGGATCA  
CAGTAACCCTCTGGAATAATAATGGGGGAGAACCAGGGAGCAATGGGG  
GGCTGTGGTGGATCTGGGAGGGGCAATAGGGTGCCCTGGGGGGCAATATG  
AGGGTCTTAGGGTGCAATGTTGGGGTCTAGGGGGAAGTAATGGGGGGTC  
TGGGGGCAGTGGTGGGTCTAGAGGGG

FIGURE 10

SUITE 20

58/110

Conti224.txt

GGAGGGAGCACTCACCCAGGTCTGAAGCTAGTTTATCTGCAATGAAACAA  
ATAAGAAATGCATGATGAGAAGGGTCAGAATATCATCCCATGGCTGATCC  
CATGGGAAGACCCCGAATCTCTTTGGTTTGCGGAGGAGGACTCACCCAAC  
TGTGCATTCTTCTCTCTGCAAAGGGAAAGCAGAAACAGTGTGTGGTGAG  
AGGAGCAGCTCATCCACACATCGCACAGGAAAACCCCTTTTATTTA  
ATTTGGAGGGAGGACTCACCCAGTTCTGAAGCTAGTTTCTTTGCTAAAGA  
AACAGATAAGAAATGCATGATGAGAAGGATCAAATTATCATCCCATAGGA  
ATACCCAGATCTCTTTGGTTAGCGGAGGAAGACTCACCGAACTCTGTGT  
TTCTTCTCTCTACAAAAGAAAGGCAGAAACAATGCATGAAGACAGGAGCA  
TCTCGTCCCACAGCTCCCAAAGGAAAACCCCTTTTGTTTAATTTTAAA  
GGCAGCACTCACCCAGATTTTCAACTAGTGTCTCTGCAAAGAATCAAAT  
AAGAAATGCGTGATGAGAAGGGTCAGAATATCATCCCATGGCTGATCCCA  
TGGGAAGACCTTGAATCTCTTTGGTTTGCGGAGGACTCACCCAACCTTGC  
ATCCCTTCTCTCTGCAAAGGAAAAGCAGAAGCAGTGCGTGATGAACTGAA  
CAGCTCATCCACAGCTCACACAGGCATCCCTCATTTTGTATTTTGTG  
GGAGGGAGGACTTACCCAGTTCTGCAGCTAGTGTCCCTGATAAAGAATCA  
AATAAGAAACGCATGACGAGAAGGCTCAGGTTATCATCCCATGGCTGATC  
CCATGGGAAGTCCCCAAATCTCTTTGGTTTGAGGAGGGAGACTCACCCAA  
CTTTGCATCCATTCCCTCTGCAAAGGAAAAGCAGAAACAATGCATTATGA  
GATGAATGACTAATTGCACAGCTCCCCAAACATTAAAAAAAAAAAAATAG  
TGGGAAGGGAAACTCATCCACTATCGCAGGTAGTTCTGCTGGAAAAGAAA  
GAGCAGAGCAGTGATGGTCAGAGAGGACAGCTGCTCATCCCACAGCTGA  
TGCCATGGGGAGACCCTGAATCCCTCACTTTGGGGAAGGAGACTTACCC  
AACTCTGCATCTTTCCCTCTGCAAATAGAAGCAAAGGAAATGCATGGT  
CAGAGGGAACACCTTCTCATCCCATGGTTGCTCCCATGCCAATACCCCA  
AATCTTTGTTCTGGTAAG

FIGURE 10

SUIITE 21

59/110  
Conti508.txt

CAGTGACAGTGCAGGTGGAGGGACACGGCGAAGGGACGCTGACGGTGGGT  
GGCTGCATGGACATTGGTGTCTCATCTCCAAGACCGATGTCCCCTCACAACC  
TCCCCTCATGGTGTCCCCTCATGCTGCCACGGTGTCCCCTGCTGTCCCAT  
CATGGTGTACGCTGTCCCCAGGTGCTCCGCCAGTTCCGCCTGCTGTAC  
CTCCGAACGCCACGTGCCAGGCGCTGCACCTGGAGGTGGCCATCACCGGC  
CCCATCCTGTACCATGGTGAAGCCCCACCCAAAGGCCCCGCCCCCTTTTC  
CTCGCGGGGGCGTGCCCTCAACCCTGTTTTGCATATCCCAACCCCCAGC  
AGATGAGGACTACGAGGACTACGAGGACTACGAGGAGGCGGAGCCTAAGG  
AGGGGGAGGAGCCTACGGAAGGGGCAGTGCCCGTGGAAGGGGCGGGGCCA  
GCAGATGACCCCGCCCCCTCAGCCCCGTGTCTTATGGGATGCCCGTAA  
GCGGCAACGCCGCAGCACACATAACCCTGCCCACGAGGTGGCCTTCCTGG  
TCTGCTTCCGGTGAGGGGCGGAACCTCCTGTCCCTGGGGGCGGGTCTTCC  
TGCTGATGGGCGTGGCCTGTTGTAGGCGGAGCCCAGGGGTGGCACTGACT  
GGGATGGCGGTGGTGGAGATCACTCTGCTCAGTGGCTTCTCACCCCATAG  
AGCTGACCTGGACAAGGTAGGGGCCCAGGGGGACTTGTGGGACATGTTGG  
GGGGTTGAGGGGAGTTATGGGGTGTGGGGTTTGGGGGTGTTGGAGTTGTT  
GAGGTGGCAGAATGTTTGGGTTGGAGTCATGGGATATGGGG

FIGURE 10

SUITE 22

CCACTCTTGGGTGAGCTGACAGCGTCCCACGTCAGCCCCGACTCCGTCCA  
GCTGGAATGGAGCGTCCCCGAGGGCTCCTTTGACTCCTTCACGGTGCAGT  
ACAAGGATGCACAAGGCCAGCCACAGGTGGTGGCCGTGGACGGTGGGTG  
CGCACAGTGACCGTGCCCGGGCTGTGCGCGTCCCGCCGCTACAAGTTCAA  
CCTGTATGGGGTGTGGGGGCGGAAGCGTCTGGGCCCCATGTCCACTGATG  
CTGTACAGGTGAGCATGCTGTGTTCTGCCTCCATGTTCTTTTGCTTTCA  
GTGTAGTTGTCATGTGGCAGGAACCTTTGAGGGCCACTTTTGGTTAATGT  
TGCCTTAATAGTCAAGGAAACAATTTGTTCTTGTTGAGTGGGAATGCCTA  
ACGGGATGGGAGTTTGGATGATGAGAGGACAAATCTTATAAGGGATGATT  
GATAATTATTGCGGAACGGATGGAAGGAAGGTTGGATGGATGGAATGGTG  
TTTGGATAAATTTGTGCTCAGAGCACAGCTGGAGTGTGGATGAATGTTG  
CTTTGCTTGTGTAATAGATGGATGTTTGGTGTGTGGTTGCTTCCACTGA  
GAATTCCTCCCTCTGTGCTGCAGCAGCAGCTCCAGCACAAAGAGGAGCCAC  
CTTCCCCACCACGTGAGGTGAGCTGACAGCGTCCCATGTGCGCCCCGAC  
TCCGTCCAGCTGGAATGGAGCGTCCCCGAGGGCTCCTTTGACTCCTTCAC  
GGTGCAGTACAAGGATGCACAAGGCCAGCCACAGGTGGTGCCCGTGGACG  
GTGGGTGTCGCACAGTGACCGTGCCCGGGCTGTGCGCGTCCCGCCGCTAC  
AAGTTCAACCTGTATGGGGTGTGGGGGCGGAAGCGTCTGGGCCCCATGTC  
CACTGATGCTGTACAGGTGAGGGCAGGAATTGGCACCTGGTGGGCTCTG  
GGTTTGCAGCAGGTAGAAATGTAAACGTGGCCTGCGCTGGGGATCTTGTT  
TTCCCCTGGCAATGGGAACAGCTGTTGGGTGCCCTTTTTTGGGAAGGATCC  
CTTAATCGCAGCATGAAGTATGAATGGACCAATTGGGTGTGGGTGGAGTG  
ATGGCTGTTGAGATGAGTTGGTGGCTGCTTGAGTAATTGTCTGTTGGAAT  
GGATGGACAGATATGTGAAGGAGTGAAAGGATGGATAAAGTAATTTAGGA  
ATCGGTGGATGAAGAATGGGTAGGTAGACCTTGGTGAAGTGGTAGAATG  
GAAGGATTTATGAACAGATATGAGTTAATTCTTGCATCGAAGTAGGTGTA  
AGTGTCTATTAGCCTGTTGCACTGAACATGCAGTTGCATAGACAAATGAG  
TGGGGAGAAGTACGGAGTAAATCCCTGCATGAATGGTAGGACAGAAACCT  
GAATGCCTGGATGCTGGCAGTGTGAAGAATGGCACTTGGGATAGATGGTT  
CGAGTATGGGGTAGATTAAAAGATGGATGGAAAAGAGGAACAGAGAGAGG  
GTGATTGGATGAATGGATGGATGGTGGATGTGACTGATTGACAGGTACC  
AAGCTTTTTTCCCTGCACTGTGCCTTCTGTGCTGCAGCTGCAGAAGAGACG  
GAGGAGGAACCACCGTCCAGCCACGCCTAGGAGAGCTGACGGCATCCCA  
TGTCAGCCCCAACTCCGTCCAGCTGGAATGGAGCATCCCTGAGGGCTCCT  
TTGACTCCTTCACGGTGCAGTACATAGACGTGCAAGGCCAGCCGCAGGAG  
CTGCACTTGGATAGTGGGTGCGGCACAGTGACCGTGTCTGGTTTGCTGCC  
ATCC

FIGURE 10

SUIITE 23

Conti534.txt<sup>61/110</sup>

GCACAGAAGGAACCGCCATCCCAACCACGCCTGGGTGAGCTGACGGCCTC  
CCACGTCAGCCCCGACTCCGTCCAGCTGGAATGGAGCGTCCCCGAGGGCT  
CCTTTGACTCCTTCACGGTGCACTACAAGGATGCACAAGGCCAGCCACAG  
GTGGTGCCCGTGGACGGTGGGTTGCGCACAGTGACCGTGCCCGGGCTGTC  
GCCGTCCCGCCGCTACAAGTTCAACCTGTATGGGGTGTGGGGGCGGAAGC  
GTCTGGGCCCCATGTCCACTGATGCTGTCACAGGTGAGCATGCTGTGTTC  
TGCCTCCATGTTCTTTTGCTTTTCACTGTAGTTGTCATGTGGCAGGAACCT  
TTCAGGGCCACTTTTGGTTAATGTTGCCTTAATAGTCAAGGAAACAATTT  
GTTCTTGTTGAGTGGGAATGCCTAACGGGATGGGAGTTTGATGATGAGA  
GGACAAATCTTATAAGGGATGATTGATAATTATTGCGGAACGGATGGAAG  
GAAGGTTGGATGGATGGAATGGTGTGTTGGATAAATTTGTGCTCAGAGCAC  
AGCTGGAGTGTGGATGAATGTTGCTTTGCTTGTGTTGAATAGATGGATGTT  
TGGTTGTATGGTTGCTTCCACTGAGAATTCCTCCCTCTGTGCTGCAGCAG  
CAGCTCCAGCACAAAGAGGAGCCACCTTCCCCACCACGTCTGGGTGAGCTG  
ACAGCGTCCCATGTGCGCCCCGACTCCGTCCAGCTGGAATGGAGCGTCCC  
CGAGGGCTCCTTTGACTCCTTCACGGTGCACTACAAGGATGCACAAGGCC  
AGCCACAGGTGGTGGCGTGGACGGTGGGTTGCGCACAGTGACCGTGCCC  
GGGCTGTCGCGCGTCCCGCCGCTACAAGTTCAACCTGTATGGGGTGTGGGG  
GCGGAAGCGTCTGGGCCCCATGTCCACTGATGCTGTCACAGGTGAGGGCA  
GGAATTGGCACCTGTTGGGCTCTGGGTTTGCAGCAGGTAGAAATGTAAAC  
GTGGCCTGCGCTGGGGATCTTGTTTTTCCCCTGGCAATGGGAACAGCTGTT  
GGGTGCCTTTTTTGGGAAGGATCCCTTAATCGCAGCATGAAGTATGAATG  
GACCAATTGGGTGTGGGTGGAGTGATGGCTGTTGAGATGAGTTGGT

FIGURE 10

SUIITE 24

62/110

Conti547.txt

CTGTGTCCCCAACCTGCTTGGTGTTCCCGCAGGACACGCTGGTGGCCCTG  
GAGGCGCTGGCCCAGATGTGGCTGCACTGGGGCCGTGGGAACACAATGGG  
GCTGAACCTGGGGCTCTCCTGGCCGGGGGGTGGCCGGGGGAGGGCTGGTG  
GCACTCAGGTTATGCTGAAGCCGGGGCTGGAGCCGCTGGAGCAGGAGCTG  
CAGGTGGGGACATGGCGGGATGTGGGGACACGAGGGATGTGAGGACACTG  
GGGACATGTCTGGACTTGGTAGGATGTAACATGAAGACACTGGGGACATG  
GTAGGACATGGGGGACATGAGAACACGGGATGTGGGGGACATGGTAGGAC  
ATGATGGACACAGGGCTTTGGGGTCCTTGGGTCTCGCTCTGTCCCCATG  
TCCCCAGGTGCCTCTGGGCAGCCAGTGACAGTGACAGGTGGAGGGACACG  
GCGAAGGGACGCTGACGGTGGGTGGCTGCATGGACATTGGTGTCATCTCC  
AAGACCGATGTCCCCTCACAACCTCCCCTCATGGTGTCCCCTCATGCTGC  
CACGGTGTCCCCTGCTGTCCCATCATGGTGTACGCTGTCCCCAGGTGCT  
CCGCCAGTTCGCGCTGCTGTACCTCCGAACGCCACGTGCCAGGCGCTGC  
ACCTGGAGGTGGCCATCACCGGCCCCATCCTGTACCATGGTGAGGCCCCG  
CCCCCTTTTCCTCGCGGGGGCGTGCCCTCAACCCTGTTTTGCATATCCC  
AACCCCCAGCAGATGAGGACTACGAGGACTACGAGGACTACGAGGAGGCG  
GAGCCTAAGGAGGGGGAGGAGCCTACGGAAGGGGCAGTGCCCCGTGGAAGG  
GGCGGGGCCAGCAGATGACCCCGCCCCCTCAGCCCCGTGTCCTTATGGG  
ATGCCCGTAAGCGGCAACGCCGCAGCACACATAACCCTGCCCACGAGGTG  
GCCTTCCTGGTCTGCTTCCGGTGAGGGGCGGAACTTCCTGTCCCTGGGGG  
CGGGTCTTCCTGCTGATGGGCGTGGCTTATTGCTGAGGGGCG

FIGURE 10

SUITE 25

63/110  
Conti548.txt

CCTCTGCTGCTTCCAGAGCAAAGGAAAAGGGAGAGGGGGGCTCCCACCAC  
CCTATCCCAGAGCATCAGATGGGCAATGGATGCAGCAGCTCCGTGGGTG  
TGGAGGTGGCAGTGGCAGGAGCGAGGACGGCTCGGAGATACCGAGGTCA  
TCAGCCACCGAAACCATCTCAGGAAAGGGAATTTCCACACAAAACCTCCAT  
TTGGAGCACCTGGCAGAGAAGCTGAAGCTTTTGGAGCTGGATGGAGACAG  
AGGGGAGAAGGAGAACTCTGCTCGTGGCGCAAGAGGACATTCCCCTCCA  
ATGGACCACGGGATGATGGAGGTCCCCTGGAGCCCCCATAAAGGAGTCA  
GTGCAGGAGGATGTGGTCAGCCCTGTGTTATTCCCTAAAGCCCTGTTTAA  
TCCTTCATGTCCATGCTGAAAACCTTCTTCTCTGCGAAGTCCAACACATTG  
CATCTCTTCCCTTCTTTCTCCCATCACAATATCCTCCCCAAACCCCTTTT  
TCTTCCTCCAGGAGCAGATTACAGCGATCTGGAGAACCTCAAGAAACAA  
AAGGAGGAGCTCTTAGAACTCAAAAGGAGTGGGGAGAGGCGATGCCAAGA  
CCTTCTGGTAAGAAGCTGTTGCCTTCAAGCTGGAAAAACAGAGGTCTTTT  
TGGGGTCCACGTGTTGATTTTCCACAACCTACAGACACGGACGGAGGCT  
GAGAGGCAGAAAATTGTGTCAGAATTCGTCAGCTCCGCCGTTTTCTGAA  
GGAGAAGGAGATGGTGCTCGTGGCACGGCTGGGGGAGCTGGACAGGGCTG  
TGCTGAGGAGGCAGGAGGAGGAGGAG

FIGURE 10

SUITE 26

64/110  
Contig51.txt

AGCCCAGCACTCTGCAGTCTTCTATCAGTTCCAATAGAGGAATTTTGGTG  
GTAGAAGGGGCTGGAAGGACTCACTCTGCTTTGTGGTCTCAGCTGCTGGA  
AAACAAAGCAGAGAAATAGCTGGTCAGCAGGGCAGCTTGGTTTCTGGGGA  
CGTCTCCAGAGGGTCTGGACCTTTCCACCTGCCCCACGGTCCACCCACAT  
TCCTATCTTTCCGCCCCACACCCCTTTTTCCCTTTCCTTCATTCCCAATCA  
AACGGCAAATGTTATTTAATGACCACTGTCAATCCCCAGAAAAATCTCCC  
TTTCTCCTGCATACCTCCACGGACCTGAGCTCAGCACCACCCGACCATC  
CCTATCCCTGCTCAACACCTCCCTGTGATCCATCCCCTCCATGCTCAACT  
CACCTTTCTTCCCTATAGAGAAAAACAGTGATGACAAATGACCCAACCAGA  
ATTGTGACGATCACAGCCAGAGCCACCTTCCAGGGATGGGTGATCTGGGA  
AAAGGGGTCTGGAAAAACATCAGGACAAGGGTTCCTTTTCCATTCCCAT  
AAGTGGAAAAGCAAGACTCAGCCTTGGGACATCACAGAACCCAAAGGGGC  
AGCAACCAGGGAGCAGTGATGCACAATGACGGCATCCCCATATTGGCACA  
GGTGGAGGAGCTGCTCAGCATCGTGTGCCCACTGCCACTGAGCCATGGAG  
AAACCCATCCCAGAAATCCAACCCAACCACCTCATCCATGCAGACTTATC  
CACAAATTGCACTGTGCACCTGCTCCAACACCAGCATCTCATGGAACAAT  
TTAGCTCCGACCTCTTCCAAGGCTGCTGTCCTTCAGCTTTCATCCATG  
GATGTGAGGATGAGGATGGACAGAGGTCGGGGTGGGACACACAAACCCAG  
CAACACCTGGAGGCGTCACCCAGCCACTGACCTGACACCTCCAGGTCCA  
CCACAGCGTCTGCA

FIGURE 10

SUITE 27

65/110

Contig99.txt

CCCAGCAAGGCCAAGCGCCGCCATAACGTCAGTGCCGGTGAGACTGTCTG  
ATGCGGTTGCGCGAGGAGAGTCACTGAACATCGGTGATTTAGGCGCAAAG  
TATTTAGCGATTGATTCGAGGTTCAATTATGCGGCTTCCTTCTGTGGCTGG  
TGGGTTTTGGTCTGGCTGTGCTTTACTATTGGCGGCATGCTGGCGCGCTT  
AACGCTTTCGGCCTGGTATCGGGTTATCTCGTCTCTGGTCATGATGGCCT  
CCGATTCAGGCGCGAATTGCATCGCGCTTTGTTGGATAGGTGTCAGTTA  
TCGGCTTAATCAAGCATTGCTTTGTTGAACAACCGGCGTAGACACCATCA  
CCATCAGAAAAAAGTTCTGCGCCGCCGCCACAGAACGGACACTCAAGCAG  
AAAAGCCCAATGAGGTAGCTTGAGATCGAATATCATTGGTTTTCATGCTGC  
CTCCCGCTGTTTCAGTGCTTTGAGCTTGTGCGGGTACTCATCCCGGATCC  
GGATGAAGTCTTCACGGCGGTAGTTGGTCATTTTCGTGGGGACCATTGAGC  
CAGTTGACGTATCCCTGACCGTAACGAGCGACCAACCCAGCTTCGTATTG  
CTGCGCCACGGTCGCCCTCTTTGGCGGTGTACTTGCCAGCTCCGGCATTAC  
AGGATTTGCACTGCTTATGGGCGTTGCGTTCTTCAAAGCGCAGTTCAGGG  
TAAGCACCTACTGTCTTGAAATGGCCGCAATCCCACTGGCCACCATGCAG  
ATCAGGCGGATTGGTCTCGCCGCAGCTGATGCATGGCAAATCGGCGTCGC  
GCGCACGGATAAAGGCGTTGAAAGCTTCTGAGCCTGAGCCTTGTAAGTAT  
CCGTCTGGCCTGAGCTCTGCCAGCCGCTCCTTGCGGCGTTTGCGCCCGTC  
CTTTTCAGCCTCTTTTTGCTCCTTGATGCGCTTAGCCGCGGCTTTCACCT  
TCTCCTTCTTGCGTTCTTCCATTGCGAGGATTGCGCCATGCTCCGGGG

FIGURE 10

SUIITE 28

66/110

ContigB5.txt

CCCTATGGGGCCAACCCCGTGGAACACGCAGGGTTGGGGTTGGATCCT  
CGAGCTCTTTTGCAAAGCCTTTCTGGCTATGGTTGCACTCAGTTAATTAA  
ACTGTCTAAAACCATATTTTGTATATAATTAGACATGATGTTTACTGCTT  
CTGTCCCCCCTTGGTTTAAAGAGCAGAGAGGCTCTTGCAAGGGAATTC  
CTCTCACTGAGTGCCACTTTGGAATTGTTGTGTGATCACCCAACTCCAG  
TGCAAAGCCCCAGCCCCACTTTGGGCAGAATGAATGTGTTTTCTGCTCAG  
AAGAGCTTCGATTCCTGTGCAGCAATGTGGTTGGGATCTGATCACTCAC  
CGCACACGCTGAGCCCTGTCACCAGCAGCAGCAGCAGCAGCAGCAGCACC  
CCCAGCATGCAGGCTTTCTGGAAGTCCCACGGAAGTGGGAAGAGCCCACAC  
TTATATAAAACAGACATTTTGAAGAACTTTTCTTTTACAGAAATGATC  
TCCCTGTGAAAGAGCCCCCTCCACCAACCTGCTACGTTAGAGCAGAAGTG  
ATGGCTGCTTTGGTTCTTTGAGAATTTGGGGTCCCCGGACCCTTCCCATT  
GGTTCCCATGCTGTGTATGAGCAGAAGTTGATGCCTGTTTGTTCCTCC  
AGTTCCGGGGTCCCCTGGACCCTTCCAGTGGCTCCCAGTGGTTCCCAGC  
TGGGAAGGAGGTGGCACAGAGGGGTGACAGCAGCAGGGAGCATGGGATGG  
GCTCCCGCTGGAGGTCAGATGGACACAGGGACATCACCTCCACGCGTGGT  
TCTGGAGGTGGTGGAGGCCCTGCAGGCTCCATAGAGCATGGGGTGGAAGC  
TGAGCAGCCCCCAGGCTTTGTGAGCCGAGCCAGTGTGGGGCAGCCGGTG  
GCTGGGAGGGCGGGGATGTCTGCAGCCCTCATGCCACGTGGATGCAGGGT  
GCGTTTGCCACCATTTTATTCCATTCTCTCACATTGGGCTTCCCGATCTG  
GGCTGATTTTGTCTCAAACACACACCTCTGGCCATTCCCAGGCTTCC  
TTCTCCCCCACCCTTCTTTACTCCCCCATAAAGCCAGGGTGGACCCA  
GAACCAACCAGCATTGCTGGTGTTCCTCA

FIGURE 10

SUITE 29

CCGGCATCACCGGCGCCACAGGTGCGGTTGCTGGCGCCTATATCGCCGAC  
ATCACCGATGGGGAAGATCGGGCTCGCCACTTCGGGCTCATGAGCGCTTG  
TTTCGGCGTGGGTATGGTGGCAGGCCCCGTGGCCGGGGGACTGTTGGGCG  
CCATCTCCTTGCAATGCACCATTCCTTGCGGCGGCGGTGCTCAACGGCCTC  
AACCTACTACTGGGCTGCTTCCTAATGCAGGAGTCGCATAAGGGCATCGG  
TCGACGGGATCACGTTGTGTCCCTGAAGCTCTCCTGTACCCAAACACAAA  
GGTGATGTCCCCAGCATCCCTATCCAGCACTCTGGGGGACTCCTATTGA  
ATTCCTCCTTGGGCTTGCTGCCTTCTCTTCCCGTTCCCAGAGATCCCAAA  
AGGTTAAGCACCTTTGGGTGAGTGTTCAGAATTGTCACTGCCAGTTTTGG  
GGTATCAGTGGCAAATTGAGACCCTTTTACCCAATCTTGCACCACTCTGG  
TTCCCCAGTCTTATGGTTTTAGATGGAGTAAAAAGGTTTATATGTCATAA  
AGTTCCTTCTGTGTCTGGTTATTTCGCTGCTTCTGGATGCCAGGATCATGGG  
GATAAGGGGAAAAACAATGGGTTCTCTTATGCGTAGAGATGCAATCAGATG  
GGGAGAAAAAGAAATCTTAATCTTCTGATCCATCTGACAGATATTCAGT  
ACAGCCCTGAGGATGTGGGAAATAAATCTGAAGAGTTTGTGGCAGTTCC  
AAGGATTTGGAATGACTAAATCCCATTCCCTGGTGTCTGCACAAAGTTGGC  
TGTGTTGGAACCCAGAAAGATCCATGCAAGTGGGTCTCCCTGAAAGCAT  
TGTGTTCTGTGTCTGCTAGCGGAGAGAAAGACACAGAGGGGAAAAATTAA  
GTGTTTTATTGTTAATTATTGTACACTCTGAGGTTTCAAATACCAAATCT  
TTAAGGAGAGCGGACCACTTGATTTGAGGGTGACCATCTCAGATGGGGAC  
AACTGTACCTGATCAGGCAAACCTGGGGGAAATTTGCCTTTCTGCCACTC  
TTTTGGGTGGGATTTTCCCTTTTGACCACCATTTTCTACATTCTAATCAC  
CCATTGCAGCACTTCTCCCCCTTTTTTTTGCCCCATTTTTCTCCTGCTCA  
GCACTTCTTAACAATATAATATAAATCAATATCATATCAATATGATTCTA  
TGCCAATAGATTAAATGGGGATGAAAGACACATAAAAAACCCAAGTCCTCAT  
TTCACTGCTTCCCATGGGATGGGTGGGGAGGTGGCTGTCCCCTGAGGCT  
GTAGGATGTGGGGTCAACCCTGTCTGTGTCTCAGGGACACAGCCTCAGCT  
TGGACCTGACCCCTACCACCCACAGCCACGGACGGACCCCTCTCCCCAGAG  
AAGGATGCATGGGAAAAACAAGATGAGCCCCCTTCATCAGCATCAAA  
AAATGCCACCGTCCCTCCAGCGTAGTCCAAGTGGACGCTGACCCTCCTGG  
GCACCCAGCGCAGAGCTAACAGGGTCACTTGTGGGTGGTGAGTGCCCCG  
ACCTGTCCCCCCCCATTTCTCCACCCCCCAAATCCCCCTTTGGGACAGAG  
GCTGAGTTGACCCTTCCGAGGGATGGATTCTCGGGCCACACCGATGGCCC  
AGTCCCCCTTCATCCCCCACTTCCACCTCCAGCAGTGCCGGCCGGCAGAG  
AAGCTTTGGTGGCCCCAAAAACAAGGGCCAGTAGGCGAATCTTTCGGGGTT  
ATCAGGAAGGTCTGTGTCTTCCCCACGTTTCACACTCTTTCGGTCTT  
CGGAGAGGATGAGGTGAGGGTGAGCGGTGTGGGGTCCAGGGTGATGCTG  
GCTGTGGGGTGGAGAGGATGAGGAGTGTAAAGTTTGGGTCTCGGTGCTG  
AGGCCATGAGGATGCGGAGAGCTTGATCTCCAGCACTAAAGGAGTTGGA  
TGTGCTCTAGATGGCCCCACCTGAGTAGGGTTGTAGGGTGGGACCGTCCC  
TTCCAACCTCAGCCATTCTGTGGGGCCATGGGTGGCATCGGAAGGGTAA  
AAAGTACCAAAGAAGAAAGTAAAAAGGTGAGAGGTGGAACCCCTCTCAT  
GTGCCCGTGCTATATGACAATAAAAGTGTTTTGAGCCCCCAGAATGCCCA  
GAAATAAAGGCGTTTCTGCAGACCTTCTGTTCCATTGGTCAAAAGAAATG  
GTGAGGGGAATAAAAATGGAAGGAAGGAGATCTATGGGATATTACCTGCA  
AAGTCTGCAGTGCTTCATCTCCTAGACCAACCCGGACAGTTCAGCCAAC  
CCCATGGTTTTAAAAACAGAGCTGAAATCTGAAGGCAGGGATAATGAATG  
AGTTCAACCCGCTCACCATATTTGTTTATGGGAAATGGATATTTATCAAG  
GCGAGGGATCTGCCCTGGGGCCATCATCCCAAATTACAGCCAGACTCGGC  
CTGCAGGGTGAAGAAAACCTTGTTTGGCTGCCCTGATTTTTGTGTATTCTT  
CCCTCGGCATCTATTTTGTCCATTGGGTACAGCCTATGGGTCCAGGCG  
CGCCTCCATCTAACAGGTAATGCGGCTTATAGGTTCTCATGCTCAGCAAA  
GGCACTTTTAGGAAAGGTGAAGCTGGAGGGGTGCAGAGCCGGAGAGCAGC  
CCGTCTTACCCCTGAGCACTTCTCAGGAATTACAGCAAAACGTGTAAT  
TAAGAGTGGCAAACGGGGTATCGAGTCCTTCGGGTCTCAATTATTTTCCT

FIGURE 10

SUITE 30

FEUILLE DE REMPLACEMENT (REGLE 26)



69/110

COSMIDE.txt

ACCTCTTTTAACTTCTCTCTCTTGGTTCTACAATCACCACCAACCTGTGTGTA  
TTTTGGTGCTGCCTGTTCTCTTTTGGGCTTTCTCAGAAGAAAATGGGT  
TTTGAGGGAATCCATTAGGTGAGTCCTCACCCCAAGCAGCTCTTCTTCA  
CTTTGTTGGCCCAAAGCTGACCCAGAGCCATACACCCAAAGCAAACCCAG  
AGCCGTACACCATAATGAGGCAGGAAGTGGAGTGTGCAGAGCACATCTT  
TTAATTTAAATTAACCTATCAGAAAACGTAGGCAGAGACCAGCTCCCCACAC  
CAGGCGTTGCTATTTGCAGTGAAAGGCCGCATACCTTTGCAGGACACCC  
AGATCTGCCCCACGATTGATGTCAAATAGATGCATAAATTTCTTCCAAG  
TCTTCAGTGCTCTCTGTGGTTGGTTTCCCCACCTCGACAGGGACCGCCCGG  
GGCTCCCAATGGGGAGACACAGACAGGGCAGAGCAGCGGGTCCCCTTGGCAC  
ATTGCTCCAAGCAACCACAGCACACATCCCATCAGATGCCCCTTTCATAA  
AGGACATCTCAAGGACAGATCTTTAGGGGAGATCTAAACCAACCCAATC  
CAAATGGGACATCAGCTGCCCACTCGTGGACTGCTCCTCTGAGGGGGGAT  
TTTGGGTGATCTCTTGCAAGCGAGCCCCCAGCCCTATCTTGAACAAGGGG  
AGGACCTTCTCCCCATTGAACAAAGCCCTGGTGTACACCAAGATGGGGGT  
GTCATCATCCGAGCTGAAGAATGCCACCCGACCCCTTCGTAGTCCAGGG  
AGACCCGAATCCTCCTGGGAAGTGCAATTCAGACGTAGGTTGGCAGGGGA  
GACGTGAGGGAGTGGTAGGCCCTCCAGCGCCAGACACCCCTTTTGGGGCT  
GAAGCTCATGGGTCCCTTCTCTTATCGAAGCCGGGCCACCCCAAGGG  
CCCACACCCCCCTGTCCACCTCCACCTCCCAGAAATGCCTCCCCGAG  
GTGAAGCCCTGGCAGCCCCAACACGCAGGGCTCGAAGCTGAACCTCTCGGG  
GTTCTCGGGGAGGTCTGTGGCACCAGTTGGCCCCGGGCTTGTTTTCGGT  
CTTCAGAGAGATGGAGGTTGGGGTGAGCGGTGGTGGGGTCCATGGTGACG  
TTGGCTGTGGGACATGAGGGGGAATGGAGGTAGGATTTAGGCTTGGGGGG  
AGCTGGAGAGGTTCTCTCTCTCTGTCTTTCTCTGGGTGCTTTTGA  
CATGGGCTGGTGGTGGTGGTGGGTTGATGGTTGGGCTGGGTGATCTTTGG  
GGTCTTTTCCAACCTTTGTGATTTCTATGGGGTGTTGGGGCTCCACAGC  
CTCAGTGTCCCCAGTAGAGATGTAGGAGAATGGGGAGAGGACAAATTTT  
AGGGCAGCATAATGCGGGAGGGACAAAGACATGGGAAGGGGACAGCTTGA  
CATTACGGAGGGGAAGGGGAAGCACAAACACTGTTAGGTTTTGCCTTGA  
ATCTGTTACTGGCTTTGTAGGACCACCAGCATCAGGATGCTGTCCCCATT  
CCCTCCCTTCCCTGTGGGACTGCGTTGTTTTTCCCAAGAAAACCACTCC  
CCACCCACATCCACCACTGCTGACATACCTGGCTCTTGCAATTGAAACA  
TCAGGCTGTCTGAAAAGGAGAACAAATTCATGCAATGGGTTTATGCTTC  
AGGAAAAGGGGCTGGGAGATGGGGGAAGGGAACCTGGGGGCTGGGGG  
TTCCGAGTGCAAAAGCTCTGGGTTTACTGCAAGAGCCCCACGACCTCCC  
AGACCTGGAGGAGACCCCCGACCCCATTCAGTACCTTGGCACTTCTGCAGC  
GTCAGTCTCACCAGGACGTTCTTCTGAAGGAAGTCTCCAACCTTCTTTC  
CAGAGTGGGGGAAATCTCTGCTGGAGGGCTGAACTTCATCATCTCACAGC  
TGCAAAGAGAGGAGAAGGGTGGGGATGGGGGGACTGTTGCGTTGGTTGGT  
TGGCTGTTCATTTTATTCTCAATAGGAGAAGCTATGGGGTGAGGATATTT  
GCACAGGGACGAAATCCCTTTCCCCCCTGGGATCCCTCTGCCTTGACGCC  
CTCCCCCAGGGTGCCATCCAAAAATCAGGGTGACAATAGGAAGGAGCCAT  
GTTACCTATTCAAGAGCCTCCTGATGTCCTAAAGGTGGGAGGAGAGGA  
GAGATGGATCAGAAGAGGAGCACCAAGGGCTGCCCTTCGTATGGCAATG  
CAGACAAAGACCACCTGCCCACGGTGTGATCCCCCCCAGCAGCAACAC  
AGGGAGCTCCCATGGGGTTGAGTTTGGGTTCTCAGGGTTTGCTCTGTCCC  
CCCATTTCCACCACCCCTTTGGGTTCTCACCAGCAGGAATTTGCTGTGCG  
GGCTGCTGGAATTTGCCCTCCATCTCCAGATCAGGGTGTCAAGGTGGGA  
CATCTCCTCCATCACCTTCGTCACCGCATCCTCCTGTACTTTGGTGACGG  
CTCTGTCCAGGTCCTGCCAGCTGGACCAGCAGGAAGCGCTCCTTCTCCTTC  
AGAAATCGCTGCAACTGCTCGAATTCACACACTATCCTCTTCCCTTCTCT  
CTTGTTTCTCTCTGTTGGGATGAGGGAGAAAGCAATGGGGTGGAAATAG  
AGGCAGGAAGACCCCCCTGGGTTCTCAGGATGCCGTGTTCTGGGGGATA  
TCCAACCAAAACCAATGGGAGATTAACACCAATGCCAATGGGAGACAAC

**FIGURE 10**

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**SUITE 32**

COSMIDE.txt 70/110

ACTAATGCCAATGGGAATTTATCACCAGTGCCAATGGGAACGTAACAACA  
GCGCCAATGGGAACGTAACACCAGTGCCAGTGGGAATTTATCACCAGTGC  
CAATGGGAACTTAACATCAAAAAGCCAAAGATCATCTTGCTGGGCATTG  
GGAGCAGCAGGAATTTTTTCAGGAGTTTTATCCCAAAAGCAAAACCAAAGG  
AGGGGGTAGGAGATGAGCTCTGTATGAGGGATATTTACAGAGTTTAGGAG  
GATCTGCTACGTTATCTCTTTAACACAGGGGTTCTGCGTAACCCAGCT  
GATAAACACAGCCTTAGCGCTTTCCAGCCAGCTGCGAGCCAAAAATGC  
ATGATCTGCCCCAAAATACACCAAAACAAACAGGACAGGGCGGAGGGGA  
AGGCAGACACCTCCCCTGCTGCACCCACCAATACAAGCCCGTCCTTCCA  
CCAGTCCTTCTGCTTTCCAGGTACTTTTTCCCTCTCCTCCTTTGAAGCCTG  
GAGGCGAGCCTGAATTTCTTCTGTGCCAAAAGAAGAAAGGCGGAAAGCC  
TGTTTTCCCACTTAACTGCTTCTGTGATGGGAGAGGCTTGTCTAAAG  
CCTGGAATCCTCTGCAAGGTGCAGAGCTGGGCAGAGGGAAGCTCTGTGAG  
CACGGTGTGCTGCTCTGGAGCTCTGTGCAAGCTGGGAGTATTTGCGAGAG  
AGAAAAGAGGGGAGAAGGGAAGGAAAAACACGAACTTGCTGCAACGTAAG  
AGAAAAACGCTGCAAAAGAGCAACAAAAAATCAGCACTGACAGCTGCGC  
AAGGAGGTGTGGAAGGGCAAGATAAGCACTTGGTGAGATTTCCCTCATAA  
ACACCCCAAAACGGCGGCCCTGGGGTGTGTTTCTGTATTTAAGAGCCCTC  
AGTGGAATGGTTTTTGCAGGGCTGTGGTTCGAAGAGCAAAGCATCAAAGGA  
AGGAGAGGGCAGTAATGTTGCAAAGGGCTGACGGCGGTGGTTGCAAAGAG  
GGAGGATGGGGGGGGATGCGCCAAGCAAAGGGTTCGCTGGGTTCACCCGC  
AGGGATGCACCTGCGCCCTTGGCTCCGGGTTTTGGGACCGTACCTTGACT  
CTGGGGCCGCTGGTGGGCAGGGAGCACAGCGTGGGAGCGGTGCGCCTGG  
GACGCGTGCAGCTGCGCGCAGATAGGCTCTTGGTCTCTGTGCAGAAGAG  
CTTCAGAGCCTCGCGGTGCTGCTTGACCAACCCGAGGAATGCAAACTCA  
GCTGCCGGGGCGATGCTGGCGATATTTGCCAGCTCTCTGCTGGGGCGGAAA  
TTTTTGTGCAACGCCGTTTTCTGCACTGCGGACAGGGGAAATTTCCCTC  
CAGCCCTTCCAGCAGCGGGCGATGCACTCCCGGCAGAAGTTGTGGCCGC  
AGGGGATGGAGACGGGATCCTGGAAGTAACCCAGGCAGATGGAGCAGGAG  
GCTTCGCTCTGCAGGCTGTCCAAGGGGCTCTGCGTGGCCATGGGCTTCCT  
GCTGGGCTCCGATCCGCAGAGGGAATAGGGGACCTTTCCTCCTTATCTCC  
TCGCTGATAGGAGAAATCCGGCCCCGGAGGCTGAGCCTGAGCCAAACAGG  
GCTGGGAGAGCTCAGCCCATAGGGGATGCTGGTGGGAATGGGGGCAGCTC  
GCGGCTCCCCAGCACGGAGTACCAAACTGGGGGGATCTGGGGGAAATTC  
GGAGGAAAAGTCAATTTTTGTCTCTCCTCGAGCAGCAAAGAGGGCAGGG  
GAGGCGATTTTTTCCCTTCTGTGCGATCACTGTAAGGAATTTCCAAAGAAA  
ACGCATGGAGGTCTGCTTGTGGGATGGAATATAGACGTATATTGGAATA  
AATACAGGAAGACGTTGGAACATGGGAAGGCACTGAGATATAAGCGTGCT  
GTGTTGGATATGACTCTGCTCGACTAAAGTGAAGGTGGTTTTAATAGCAC  
TGCTCAGAGCCAGGCGGGTTTTGGTGTGTTTTGGGGGGAATTACGTGGGT  
TTGGAATTGGGAAATATGAGACGGAAAAATAAGAATAATGGAAGCGCCCA  
ACGTGGGGCTCGAACCACGACCCTGAGATTAAGAGTCTCATGCTCTACC  
GACTGAGCTAGCCGGGCTGATGGGCACGCACCCTTCTAAGCAATACTTCA  
TGGTGATCCTGCGGAGGGGTGCTAATAATTCTACCTAATTATTTTGTAA  
TTATCCCGGTAATTATGGGTTCTGAGCAATCGCGAATCCACGGGGAAGAG  
CTGCATGGGGAAAAAGCACCTATCCCTACGGGAATAGCCGGGAACTGCCC  
GGCAGTGCTGCAGGGCGGGGGAAAGAGGGGAAAAGCAGGAAAAAATGGG  
CAAAATGGAACGTTTAAAGTGGAGAAATTAACAGTGAAAAAATGCAGG  
AAGCGTAAAGTAAAGGCTGTGTTTTCTGCCCGGTTTGAACCGGGGACCT  
TTCGCGTGTGAGGCGAACGTGATAACCACTACACTACAGAAACGCGCTGA  
AGGCCGCTTCGCCGCACGGAGATGTGAAGGGGCGAATGCCGGGGCTCGGT  
GCGGAGTTTGAGATAGGGGCCGCTCCGGGCCGCTCCCGCGCCGGTTCCG  
GTGAGCACAGAGTGCAGCGGTGACAAAATGAAGGGAAAAATGTAAAACT  
GATGCTCCCGAATCGAGGCTCGAACC GCCATTGTCCGACTGACAGCCGCG  
CGCTCTACCGAATCGAGGCTCGAACC GCCATTGTCCGACTGACAGCCGCG

FIGURE 10

SUIITE 33

FEUILLE DE REMPLACEMENT (REG. 4126)

COSMIDE.txt 71/110

CCGTAGAGCGCCACCCCGTTGCCTAGTGACAGGAGCGCCGCTTCCGGTC  
AAGTGATGAGCGGAGGGGGCGTGGCTTGTGTGTCAGATAGGACGGAAGTTCC  
GGTCAGGTGGTACTGGAAAGGGGGCGTGGCTTGCGGCAAAGGGGACGGAA  
AGCGGAAGTGCTGCCGTTGGTTGGCGGAGTTCGCACCATAGAAGAACGAC  
GGCGGCGGTGGGAGGGCGGGAGGTAGAGCGGTCCCCGGGAGAGTGCTGA  
GGGGAGCGGCGAGGCCCGAGGAGGGAGCGGAGCTTACGGGGAGTGCGGAG  
CCTCGAGGCGGGTCCCAGCGCTTCGCTGTGGGGCAGGAGAAAGGCTTCGG  
GGCAGGAGGAAGAGGGCCTCGGGGCTCCCCATGGAGGCGGTGGGCGACG  
ATGGGGCGTTCGTGGGGCGGCTGAACCCGGTGGAGACGCTGCAGGAGGAG  
GCGATCTGCGCCATCTGCCTGGACTACTTCGTGGAGCCGCTGTCGATCGG  
CTGCGGGCACAACTTCTGCCGGGTGTGCATCGCGCAGCTGTGGGGTGGAG  
GAGAGGCTGAGGTGGAGGAGAGCGGCGGGGCCGCGGCGTTGGAGGAGGAA  
GAGGAAGAGCTGGAGGAAGAGGAGGAAGATGAGCTGGGGGAGGAAGAGCT  
GGACGTGGAGCAGGAGGAGGAGGAGGATGGAGGCGGGGAGGAGGAGG  
AGGAGGACGACATGTGGAGCGAGGAGGAAGAGGATGGAGAGCTGTGGGAA  
GGTACTGGGGGTGGGTTTGGGCGTGCCTGTTGAGTGTCTTTATGGATGA  
GTGAGGGAATTGGGTGCACCCTCAGTCAGTTTGCAGATGATGCTAAGCTG  
GGGGGGTGTACTGATCTGCCTGAGGGTAGGACGGCCCTACGGTGGGGTCT  
GGACTGGGCCCCGATGGGCTGAGGGCAATGGGGTGGAGTTCAGAAGGACCG  
AGTGCCTGGTTCTGCACTGAGGTCACAACAACCCCATGCAGCTCTACCTG  
GGGTAGAGCGGGCTGAAAGCTGTGTGAGGGAAAAGGATTTGGGGGTGAATA  
TGAGCCAGCAAGAGGCCAAGAAGGCCCATGGCATCCTGGCTTGTATCAGA  
AATAGAGCAGCTAGTGGGAGCAGGAAGTGAAGTGTCACTCTGTACTGGCAC  
ACCTCAATAGCTGCACCCAGTTCTGGGTCCCCTCTCACTACAAGAAAGACA  
TTGAGGCCCCAGTGAGGATGGTGGGGTTGGACTCAATGATCCCTGAGGTT  
TTTTCCAACCTTGATGATTCTGTGATTCTCAGACCCCGTGGAAAGAGGAGC  
TGTGGGATGGAGTGGTGCAGGGAGAAGTCTACTTTGGGGACGATGATTAT  
GATGAGGATGTGATGGAGGAGGATGTGGAGGAAGAGGAGGAGGAGGAGGA  
TGAAGCGCAGAGCCCTCCGCCCCCTGTCCTGCCTGCCCGCCCTCGCCGCC  
TGCAGACCTTCACCTGCCCCAGTGCCGCAAAACCTTTTTCCAGAGGAAT  
TTCAGACCCAACCTCCAGTTGGCAAAACATGGTGCAGATCATCCGGCAGCT  
CCACCCGCACCCGCAGCGCTCGCGCCGCCCGCCGGCCCTCAGCCTCAG  
GGGGTCTTGGGGGGAACCCAGGGATCCTGGTGGCAACAGGAGGTGGGGG  
TGTCCGAATCTGTGCGAGAAGCACCAGGAACCCCTGAAGCTGTTCTGTGA  
GGTGGATGAGCAGGCGATCTGCGTGGTGTGCAGGGAGTCACGGAGCCACA  
AGCATCACAGTGTGTGCCCTGGAGGAAGTTCGTGCAGGATTATAAGGTG  
GAGTTTGGGGAAGGGTTCACGGTGGGATAGTGGGTGAGGTGGGGTTTGGGG  
AAGGGCTGTGGTGGAGAAGGCGGGGTTTGGAGGAAGAGTTATGGGAGAGT  
GGAGGCTTGAAGGGAAGTGAAGTGGGATCAAGCTAGGTTTCGTCTTGCT  
GAGCTGGTTGGGTGGAGGCGTGGGAGGCTGGGAAACCACACACTGCAAT  
GAGGAGGTGGAAGGGTCTGGGTACCCATTTCTGCTTAAAAACACCTTCC  
CAGCACAGTTCCTCAGAGAAAGCAAAAGGGAAGTGGCGTGAAAGTTGGCT  
CTGAGGTTCCGTTTTAGCTCTGCCACCAATTAGGGACAAAAGAGGCG  
ATGACAGAGGGGATTGCCCCAGGAGGGTTGCTGAGTTGTGTTTCCTTC  
CCTCAGTACAACTCCAGAGCCATTTGGAGCCACTGAAGAAGAAGCTGGA  
CGCGGTGCTGAAGCAGAAGTCGAATGAGCAGGAGAAGATCACAGAGCTGA  
GGGTAAGAGCTGAAGGTTTCTGTGCTTCATAGAATCATACAGGAGAACCA  
TCAGGGTTGGAAGAGACCACAAAGATCATCAGTTCCAACCATCACCGCTG  
CTGGGAGTGTGCCTTGGTGGCTGAGCAAGGAGAGAGAAGCTTTGCTGCTG  
CTCTGAGCTCTCACGGAGGCATCATATTCCCTTTCCTGCAATTATTGGGC  
TGTGAGGGCTTGGAAACGGTTTCCAGTTGAATTAGAGCTTAATGAGAGC  
TTTGTGTGCCTCAGTGTGAGTGGGAATTGGTGGTTTGGGAGCTGGTATT  
CCTCATTTGAGTTGAGGATGCTCTACATCTCTAAACCTGTGCAGACTTTG  
CTCAGTTCTGTCTGTGGTGCATTACAGGAGATGCGTAAGCTTATGGTGTGT  
GGTGAAACTGAGAGAAGCATAGCACAGCCCAAAAATGAGCTGATCTC

FEUILLE DE REMPLACEMENT (REGLE 26)

FIGURE 10

SUIITE 34

COSMIDE.txt

TCACCTCCCCCTTCTGCAGCAATTCCCCTAATGCTTTTCTCCCTCTGCA  
GGAAAAGATGAAGCTGGAAATCAAGGAATTTGAGTCTGATTTTGAGCTGC  
TCCACCACTTCTCATTTGGGGAGCACGTGCTGCTGCTGCACCAGCTGGAG  
GAGCGCTACGAGAGCCTGCTGGCCCGGCAGAGCAGCAACATCAGCCAGCT  
GGAGGAGCAGAGTGCAGCCCTTAGCCGCCTTATCACGGAGGCAGAAGATA  
AGAGCAAGCAGGACGGGCTACAGCTGCTCAAGGTCTTCTTCCATCCCTTT  
CCTTGTCTTTATGGCAAAGCGATAGCACGATGGTGGGAATAATGCTCCAG  
AAAGCTTCTGTGTGTCATGAGAGAGTGCCTTTAGTTGGTGGGCTGGGTGCTT  
CTCCACCCCTCCTTGTGGTGGTTTTTGGAGGAAAATGCCGGGGGGGGGGG  
GGGGGGGGGATATGCCCTGAGAGATTTAGGGTCTGTTTTGGTAAGGAAAG  
CCTCCAGCAATGTGTGGGCTGTGTCTTTGTTCTGTGGGGAAGGGAATC  
ATCCAGGCTCAGTGTGCTGAGTTGTGGCTGATAAGAGGATTTATTGGGAGCA  
ACGGTGGGATTGGTATCAGTCATCCCTAATCCTTTCTTCTCTTCCCAC  
CTTGCTGCCTCCTTCCCACAGGACATCAAGGGCACTTTTATCAGGTCAGT  
GACTTTGTTTGCATCTTTTCACTTTGAATAACTTTTCTTTTTTTTAAATGT  
CAAAAAGCATTGTGAGCTTTTGTTTTAAATCCTGTGTGATGGGTACAGTT  
GGGGCCTGGTAATGCAGGGGAAAGCTGTGTCTAATCTTTGGGTGATGGA  
AACTTCTGGCTGATGGGGTGCAAATGGGATCTGGGGAACAACCTGGGAAA  
AGACTTGGGAACTTGGGAAACAACCTCTGGGGCCATTTGGGAAAGGGGAAG  
GGTGGGGAGGAGATCTCGGCCCTGATTTCTGGAAGCGTGGGTGTGCCAT  
GCAGACCTCATGCTATAGCGAACTCCTCACTCTGGAGAAACGATTCTCC  
CCATCCTGTGACACAAATGGGCAGCGCTGGGAGTTCTCAGCCATGCTGGA  
CGCACGTGGCTCTACCCAGCTCTGTCTGCTGGCTGAGGGAGGGTGGGGG  
AGGCTGGCTGCACCAGTGCAACCAGTTTGGCCGATCCATGCGTTGCTCTG  
GTTTTCCAGAGCTGCATGCAGGCCGCTCACTTCTTTTCTGCTGCTGAA  
ATTCTCTGCTTTCTCCTTTTCCCCCACCACAAAAGATGTGAGAACATC  
AAATTCAGGAGCCCGAGATGGTGTGCTGGTGGACGTGGGGAAGAAATACCG  
CAACTATTTCTGAGGATGTGGTGTGATGAGAAAGATGGAGAAAGCCTTCA  
GCAAAGTTCCACAGGGTGAGAGAGTCTTCTTCTTCTACGTGGGATGGGG  
TTCCCTCCACTTGGGATGGGATTTCTCCAGCTCTTGGGGTTCTCCTTC  
CATCTCTGTGCTCCCATGGTTTGCAGCCTGATGATCCTTTAGGAAAAGCA  
GCATCCCTCTGTTCTCTGTGCTTTTCCCTTTTGCCTTGTCTGGGTTT  
TCCCCTATTGTAGCTCCTCCATAGAACTGGGGTTGATGTGGATCTGGATT  
CATTATAAAGGAGGATGACTGCCTCAAACCTCAGCATGGTGCAGATACGC  
AACCAGATGAGGATTTAGGACTGGGGTGCAAGGGGGAAAAAGTGCCAGG  
TGACCCCTAACGACCCCGCTCTCTGCCCTTCTTCCAGCTGACATCAC  
GCTGGACCCGGACACCGCTCACCTCGCCTCAGCCTCTCCCTGGACCGCC  
GCAGCGTTAAGCTGGGAGAACGACGCCAGGAGCTCCCCAACACCCCAA  
CGTTTCGACTCCGATTACTGCGTCTTGGGCTCCAGGGTTTCAACACAGG  
CCGTCACTACTGGGAGGTAGAAGTCGGGGGCAAGAAAGGTTGGGCGGTGG  
GGGCTGCACGCGAGACGGCTCGACGCAAGAAAAAACCATGGGGCCTCAT  
CAAAAAAGGGAGATCTGGTGTGTTGGCACCAATGGGAAGAAGTACCAAGC  
GCTGACGGCCATGGAGCAGATGGCTTTGTCAACAGCGAGCGGCCCCGGC  
GTTTCGGTGTCTACCTGGACTATGAACGGGGTCAGCTTTGCTTCTACAAC  
GCTGAGAGCATGACCCACATCCACACCTTCAACGCTTCTTCCACGAGCG  
CATCTTCCCTTTTCCGAATCCTGGCTAAGGGCACTCGTATCAAAATCT  
GCACCTGATGGCCCTCCAGCTTCTGATTTTTTTTTTCCCTTTTCCCCC  
TGCCTCATCCTTGGGTCCCCTTGGGACCAGACGCTGCACTTGTGTGTC  
TCGCACCTGCTGTGTCACAAGGCCTTCCCTCTCTCTCTGTCCTCAGC  
CTCTGTCCACGTCCTCAACTCTTCTCGGGGTGCGATCCAGGCTGGTTT  
GGTTTGGAGAAGGGATCCAATCTCCTTGTGAGGTTTTCCCTTCAGCTC  
TTGGTGTCTATGGGCTCCCCTCTGCCTTTCCAGTCTCGCAGCAGCTTTC  
CAGTGTGCTCTTCCCGTTTTGTTTAAAGCCTGTGGTTCGAGCTTTCGTT  
GTTTGGCCTCTTGGATGCAGAGCTCGAGCTGAGGATGCTGGGGTCTGTA  
CATTGTGACACGAGCACTGCTTGTGCCCTCTTGGCCATTGCTTTCTGAAA

FIGURE 10

SUIITE 35

COSMIDE.txt 73/110

GTCACTCAGATGCACCAAGGAGCCTCATTTCTTTTTATTTTTCAGTTCTG  
GGGCACAACCTCTGCCCACCTCCCACCCAGCCACCATCTGGACCTCAAA  
CCTTCCACGTTCTCCTATTCTGCCACTTGTCCACCTTCCCCTTTTGCTCT  
TCTTCCCCCTCTGGGGGTCTCCAGCTCTCCCTCTGCCCCATCATTCCCTC  
GCCAACCATTCTTGTGGGCCTGGCACTTTATTTAGGGCCACGTAGGCCG  
GGGAGGGTGCAAAAATTGGGCAACTTCCACCTCTGAGGCTGCTCAGAGT  
GCAGCATCGCACCAGGCCGACCGGTGGGAAGCAGCCTTGTTCCCCTTG  
CAGCTTAAGAGCTCTCTGAGGTGGGGGTATTTATTTTCTCTTCCCTTTTC  
TCAGCTGCTGTTGAATTTCCAGCTGAATCCTGTCCCACCAGAGAGACTCT  
GATTGCACCCTGTTGTGTTTTACTTCTTTTTTGTGGTGGATTGGTATTTT  
TTTTTTCTGTTGGCGTTACAGAGCTAGTTCAAAATATTTTTGGCTAAAT  
AAGAATTAAATGGAGATCTAGTTTTTGAATGTCAAGAAATAATAATAA  
TAATAATAAAGAATAAAGAATAAAGTTTTAAAGCTGAGCCTCTCCCTTAT  
TGAGAGCCCCCAGGGGACAGGAGTTGTGGTGCAGGCCCCCAGTCTGCTG  
TTAACTCCTGCTGGTAAGATGTGACTTAAGCCTTGCAATCGTTAATCTTAA  
CTTAATTAGCAGTAATTTGGATTGGGCTGCTTCCCTTCAGCAGCTTGTA  
AGGGATAGAGGCTGCTGGGTGAAGTGAAGCTCTGTGTTACCACCTCTCCTG  
CTCTCCCCACATGTTTTTGGTGGTGGTGGTGGTCTTTTTTGGCCACGGC  
TCTATCTCCCCAGGTGTGCACTCACTGTGGGCTGCTACTGCTCCTGAAAG  
GGCTCAGGGAGACATTTGAGTCCCTTCGTCCACACGTGGGAGGAGAGCAC  
TGATGTCCCCATCCTTAAAGTTGTGGGCACAGCCTTGGTGGCAAATCCAG  
AATGGGATATAATGCAGCCATGAGCTCAACAGAGCGCTCTTTTATTGAGT  
TTTGTGCTATAAATCTGTGTGTTGTTACCACATCCTCATCTGGTTCCAAT  
GGTGAATTGCCACACCCGGACGAGGTTATCTGTGTAGCCAGCAAACAGCG  
TCTGGGGAGAGAAATGGAGGAAGTGGATCATGAAAAGATAGGAATCAGCC  
CTCGGTGTGAACGTAAAAATCTCAGAAGGCAGCTCCCAAAGCGGAGGTGC  
TGGAGGAAGGTGGGAGTTTTAAGGCTGCAGGAGGAGCAGTGAAAAGGGAA  
AGGAGAAGGGGATATTTCTACCTGCCCATCTGCAGACCACGCCAGAGAGG  
TACACTGGGGAGGCTCAGCTTGTCTGCTGGTGTGATCACCTCCTGCTTC  
AGCTCATCCACAATGATTTTGCCTTCAGGTCTGTGCAGGACAGAAGAG  
AGCGTGAGGGACTAAGGTCTGCAGGGAGACTGCTGTAGCCAAACCCAAC  
CATTCAACTCAGAACAGGCTCAGGGTGCTCAGAAACAGCCTCTGGGTTT  
CCGCACAGGGATGCAGTCAGATGGCATCGAAGTTTCATCACAGCAGAGTG  
GTGGCTGTGCCCCACACCACCTCCCAGTCCAGGGGATGACAGTGCCACC  
AGCATGACCCATCCACGTAAACCAAAAGGGCTCTGCACCAAGGCATCTGT  
GGGGCAGGGCGAGGATTTTCGACCACAACCTCTGCCTCCAAACCCACAGGAT  
AAGGGAAGTGATTCTTTAGGAGGTAATAGGGATGTACATACCCAGATC  
TTGATGCTGGGGCCGGTGGCAGCGCAGAGCCAGTAGCGGTGGGGCTGAA  
GCACAGCGCATTGATGATGTCCCCTCCATCCAGCGTGTACAGGTGCTTGC  
CTTCATTACAGTCCCACAGCATGGCCTGGCCGTCTTGGGGGGCAGCAAAG  
AGGAATCACAGCAAACCATCAAACCTGTGGCTTTGTTCCAGTTGTCCATC  
TAAACCTTCCAGCTTGGAACAGCACTTGATTTGTGACTGAGATGTGGG  
TGAGTTGCCACAGGACAGCAAGAGGCACATAACTGAGCTGTGAGAACAAC  
AGAATAAGCTGCAATTTGGCCTCAGCTTTCCCCCAGGGTGACCTTGCTC  
CCAGAAGCACAGGAGGCCATCAGGGGAGACAGTCACTGTGTTTCAGATA  
TCCCGTGTGGCCGATGTGGTTTGTCTTCAGTTTGCAGTTAGCCAAGTTCC  
AAACCTAAATGAGGGTAAACGTGACAGGCTCAGAAATATGGAGGAGAAAA  
AAAACAACCTCTCATGATCACTGCTCAAATATTCCCCAGAACGCCGCAC  
AAACCCCAAAGGAGCTGCTCCTCTCACCTTCACCAGCTTGTCCCAGCCAC  
AGGAGACAATGATGGGGTGTCTGCTGTTGGGGGAGAAGCGCACACAGGAA  
ACCCACTCAGAGTGGCTCTCGTCTGAGGAGAGGAACAGCATTGGGTTGA  
AAGCAATGAAAAGCATCCCCAGTCCGAGCTGCTGCATCCCACTGCTCCCT  
GAGCCCCTCATAATTGCAGGACGTGTCCTCAGACCCCCCCCAGAAAGAAA  
GGTCAGCAGGCACTGTGTCACCTTAATCATTAGGACGGAGCTGGGAGAT  
GTGGATTACGGAT

FIGURE 10

SUITE 36

FENLE DE REMPLACEMENT (REGLE 26)

COSMIDE.txt 74/110

ACTCAGAAACAAGCAGAAAGAGGTTTATTTTCACAGTGTGGAAACTCAGA  
TCCGTTGCCTCACCTGCACCGTGTATTTGCAGACACCCAAAGTGTTCAG  
AGTTTGATGGTTTTGTCCCTGGAGCCCGAAACGATCTGGCGGTGTTCGGA  
GGAGAAGGCGACGCTCAGCACATCCTTGGTGTGGCCAACAAAGCGGCGGG  
TGGTGGTTCTCTGCAGGGACACCAGGAGGGTCGCACGGGAGGGACAAAG  
CTCAGCAAACCCCATTAATAATTAACCCTCCCCTAAATTGAGGAGAT  
CGTGCTGCAGTGCATAAATTCTTAATGAACACAACCTGATGGAAGCAGGAA  
GGAAGCTAAAACGGAGTCATCTCCACATGGGTGAGGAGTGGTGGTTCCCT  
TCCCTCCTTCCGAACAGGAACAAAAGGGTGCCAAAGCTTTTGATATAGGG  
TTGGAATAATCATGAGGAGTTTAGGATATAAACTCAGCTTCCGTGGACA  
CACAGCAGCGTAAGTGTGAACGCTTTTGGAGGATTGGGGTAGTTCTGCT  
TCCTGAGGAGTTTCTTCTCCTATAGTACTCCCAAAATCACAGTGAAGA  
AGAGCCGGTGCTGCTCCAACCTCACCCCAAACCTCTGTACCCCAAATCAC  
ACCGAAGGAAAAGCCTGCTTGCTCCAGTCTGTACCCACAGCGATGGTGA  
AGGAAGAACCAAATCCCCCCTGCTGCTCCACCTGCTTCTCTCCCATCAT  
AATTGCAGGACGTGTCCTCAGATCCCGGAGGATCAGCAGACTGTGTGAGG  
TGTAATCACTGGGAGAGTGAGCTGAGGGAGGAACCGCTTTGGTCTCTCCT  
CCAAGCATGATTTACCAACCTGAGAGGAACCTCACCTCATTTTTCAGC  
CTGTACCGCACCTCTCACCCACCCCAACACCCAAACAAAACACAGAGC  
CCAGCTCTGCCCCAAACCCCCACCCCAAGCCCTTTTCAGTCCCCAGGACT  
CACGTGGTGGAGTCCACAGCCTCAAGGTGCCATCCCAGGAGCCCGACAG  
CGCAAACCTGCCATCGGAGGAGATGACCACATCGCTGACAAAGTGCGAGT  
GGCCGCGCAGGGCGCGCTGCGGGATCCCGTAGTTGGTCTCATCTCGGGTC  
AGCTTCCACATGATGATGGTTTTGTCTGGGAAGGGGGAAAGGCAGCGGCC  
TCAGTCCAAACCTTCTCACATTCCCGTCCCTCACTGGGCTTTATCTCCCT  
CATAGCAATGGGGGGGTACACAGAAGCACCGCACCCCTTCCTCTCAGCC  
CCCCAACCGCTCCCTACGTCTCATACACAGCAGCCTCCCCACCCTGCA  
GCTCTCTGTCCCCGAGCCCTGCACCCCATTCATCACCTCCCCTCCCCCAT  
GGTCCCCCCCCAGCCCCCTCCTCTACCACTGACGGTCTCCCCTTATCTCCC  
ACAGTCCCCTCCATAGGCCCCACAGTTCCCTGCCCCCCCCACCCACAG  
TTCCGCCCCCCCCGCTCGGACGAGGCCCGAACCCTCAGGCGCGGCCCT  
CACCCCGCGACGCGGAGAGAATCATGTCCGGGAACCTGCGGGGTGGTGGCG  
ATCTGCGTCACCCACCCATTGTGGCCCTTCAGGGTACCGCGGAGGGTCAT  
CTGCTCCGTATGGCGGCGGCGGGGCGGAGGGATGGCGGCGGATTCAATA  
AAGGGCCCGGCCCCGGTCCGGTCTACCGCCCGCATGGCCGCCAGCGCGG  
AAAGAGAAAGAGGGAGGTGACTTCCGGCGGAAGCGGAAGTAGCCGCTGGG  
TTGTACGGCAAGAGGGGCAACATGGCGGCGCGCATAGAGAGCAGCTGAA  
TGGGGGAATGGGCTTTGGAGGTGGGGAGGGAAGGTTGTTCTCTGCGGCTG  
CAGGGACACGAGGTGCGGGCAGAGCACCTTCTTTAACATTTGCTATTATT  
TAACGTTTTACATTTAGCATTTTTATTATCCCTGTTGTGCCAGGACGGAG  
AAGAGCAGGGTGTGCAGCCTGTGCTTATCACCTGCAGCTGTCCCTGCACC  
CCACAGCCAACCAAGTTTGTGACGCCTGAGCAGGATCTGACCCAGGAAG  
GCAAACAGAAGGTCTGAGTCTCCTCCCTTTTCTTCCCATCCCTCCCAC  
GCTGCAGTTTGGGGGCTGTGACCCGTCCGCGTTGCTCAGTGCTCATTCCG  
ATGAGCAGTGGCTGATGGTGTGTTTACAAGTTTTTGGCATCCCTGTGGG  
TTCCACCCCGTTTTGTCTCACCAGCCTTTTTCTATCCGTCTTATCAGC  
AGATCATCCTTGTTATTAGATCTGTCTTTTTCCAGTCACGGCTTTGCATT  
TTCACCTTGGTTTTACCACCTAACATCAAGCCTTTTGTCCCCATCTGATG  
ATATTACATGCAGATAAATCCGTAAAGCAGGGAAGAATTAAATTCTGGCCC  
CTTCTACACCCATTTAGGTTTAGATCTTTCAGCATTTCAGCCAAGACGTG  
CTTCCAGAGCCAGGAATAACGTGTCTTGATGTGCCAACACACCTTGAAAT  
CCAGAAAATTGCCCCAAAATAGGCATGACTCAGCAAGCACCGTAGTGGGC  
ATGATTTGCTTGGGTGACCCCGTGGGTAAGGAGCCATTTGTTGGACACCA  
CGATGTGCTTTTTACAGCCCTGTGAGCGCAGCGTCTTAAATTGCCCTCC  
AGACATTCCAAATTTGGAGTGCCTTAATGGGTAAGGTTGAAATGGCGTCA

FIGURE 10

SUIITE 37

75/110

COSMIDE.txt

GCCTCCGGGATGAAGGAATCTCTGCCGGGGTTTTCCGTTGGATCACAGC  
AGGAGGATTTGCTTTCCTAAAGCATTAGAGTGACGTGGAGAGCCCAAATC  
GGACCCAGTGGCCACATTCTCCCAAGGGAAAACCCCTTCGGGTGCCCTAC  
GGTTCCTTTTCTAGCATGATAACAACTTCTTTTCCATCCGCCCATCCCC  
TTTTGGGTTTGGAGGTTGACAAATCCCCACTGAAATTCCTATGTTGCACA  
CATGTCCTTCATTCTTTAAGTAGGAGTTAGCAAAGGTTCCGCATTGACTT  
AATTACAGAGCGAGATCAACAATTTTAGGCATTCTTTATGAACTTCACATT  
GTTTTATGCTGATCAGCAGCAAAAAACATACAGGAATAGGAGTGTGTCT  
GTAGGAGTGCTCTGCATTTTCTTGCTCGTTTGGCTGATTAAGGAAGCTGG  
GAGGAAATGTTGTGAAATAATCCCAAGTGATGAGAGACTGTGGGTATGGG  
AGGAGATGCCCTCTGTCTGGTGAGCAGTAGGGACAGAAGACCTGAGCTC  
ATTTTCATATATCTGTATATTAAGGCAATGCTAACCAGTGCTGTCTGTGTTA  
TTTGGGGCCAGGAGTGGCTTCTGCCCCGTTGGTGCCCATAAACCAGTGCT  
GCCCCATTGTTGGGATTGGGGTCTGCTCGCAGACCACATCCACCAACCAACC  
CATGGCTGATAGCAGAGAGGGCAGGTCACCCCTCCATATATCTCTGC  
AGAAACCTGTTCTGTCTATACAGGGATCCCCATCCCTCCCCCAGCCCTC  
CTTCCATCTCGGCATTGTTGGGTTGGCTATAATTAGGCTCTGGGAACGTTT  
CCCTGCTGCCAGCACAGCTGTCTGTCTGCAATGATCCTTCCAGCTCTCT  
GCGGACACGCAAAACCTCCAGCAATCCTAAATACCCATTTCTGCACTCC  
TGGGACAAACTGGGAGCTGCCAAAAATCTCCAGCCCCCACAGACGTGAC  
CATCACAGCACCAAGGAGCAGAGCAAGCGCAACGTGATTACGGTGCAGGT  
CGGGGTAAAGCCTTTCTCTTTCTTCCACAGCCCAGGATTTGGGGGATCCT  
ATTGGCTCTATGGGATCTGGGAGATGCAGGAGAAATGTGATCCCTTTGCT  
GTAGCAAAACAACCTTTTAGAGTCTGACCTGAATCTGGCAGTACTGGA  
AAGCAGGAGAGGGATTAAGAGTCTTCTGCATTATCCTGCTCATAGGGAA  
ATACAGCACAGAAATCATTGGGGCTGCTTCTTTGCTTTCTTGGCACAA  
TTTAGGTCCTCATTACAGCGTTTCTTTGACTGAGACCCCAATAGGATCA  
CAGGGGTAGAACAAGCAGACAAAAAGTGATTGATGTTTCTATGCGATT  
TGTTGCCTTTTCCCATTGAGATTTCTGCTTTTCTATGGGGCTTTTGTCT  
TTTTACAGCTTTTTTTTATTCACTGTAGTGAATAGAAATTTTAGGGCTT  
TTAGGTCAATTGATGCTGTTATGAACACAGAGATGAATCATAACACCTTC  
CTGGTGTGGTTTGTCTATGGGATAGAAAGGAGCTCATGGTGTGTGGACA  
ACTAACAGAGGTGCCTGAGGGCTGGGCCCTCTTTGTGCCCTTCTGGGGG  
TCAGCAAACTCCTTTTATTAGATATAAATCCCTCATCCACAATTTTAC  
CAGTCTTCCCAATGCAGACCCCCAAAAACATCCCAATGACAAAGTCCAC  
GAACTGAGAAAAAGCAGCAAAAGCCTCCAGCCCCAAATATTTATCCCTT  
ATCCCATTTATTTCTATGGGCAAGCTATTCTAGGCATCAGGAAGGTGGG  
AGATTCCAGGTGAGTTTGTCTTAATTGTGATCTTTTAATGATGTTTCTC  
CCATCAGGTGGACATTTGGAAGTGGTCTGACTGGGAAGAGGACGTGATG  
ATGGCATCAGGTAGAGCTCAGAAAGTGGTATTTATCAGCAAAGCAATTTT  
CCAGGTCTGTTTTTCCCATTTTCCCATATTTTTTTCTTATTCAGGGAA  
GAGGAACGCGGATCTTGGTGAGTGATTTTCTTCTTTTACCTTCAAAAAG  
TCCCTTTCCATGTGTAGAAATGGATATACGTACCCCCACTGATACCCAT  
TTCCTTTGTTCTGTCTTATATTTATACTTCCCCATATTTTGAACACATG  
AAAACAAGCCACATTAAATAAATTATATAACAGTGCAATTTTGGACT  
ATTATTTTCCATAGAAAAGTATTAATCAGTGCAGAAGTGCTCTGGAGG  
TGACTTCTGCAGCACCCAAAGAGAGAGCGTAGGGCTGAGTGCTCTCTCT  
GTCTCTCTTTTGAAGAATGGGATGCAAAAATCAGTGAGTGCCCTTTT  
CCTCTCCCTTACGGTGAGGTATGGGTGTGGAGGACCTGAATTAATGTGA  
ATTCTCTGTTTTAAGGGAAGCTAACAGAAGATTTTGGTAAGTCGCTTAT  
TTTCTCGATCTGAGTGCATATTTCTACACCTTACCATCAGTGATGACC  
AACGTGTGTATGCATTTCTTTTATTCCATTTAGAAGAGAGCGACACAGA  
GCTCGGTGAGTGCTTTGGGGTCTTATCAAGGTGGAAAGATGCCCTCTGT  
GCAACAGTGGGGATTGGGAGAAGCCCTTCAGCTCTTCCATTTATCCACAT  
CTGATACCCAGATGGAGTCAGGATGCAGAACTGGAGGAGGAGGGCCAAAG  
FEUILLE DE REMPLACEMENT (REGLÉ 26)

FIGURE 10

SUITE 38

COSMIDE.txt 76/110

CTTTGGGCATTTTGGGGTTATTTTTGTTCTCGAGAGCTCCCAGGATTGA  
CCCGTGTCCATTTCTGTGTTATTTCCAGAGGAATGTGACACAGAAGATGG  
TGAGTGTCTCCGTGAGAGGGCTCAGAGAAAGACTTCCACCAAATCTCCC  
TCCTTTAATGTATATTCTGATGTATTTATTTAAGGGGATCTCGCAGCTGA  
GATCGGTAAGTCGTGTGTGGTTATACACCCCTATTTGTGCCTCCCATCAA  
ACAGGGCTCTGTGCAGCTTGAGTTGGTTCCACAGGGTTTGTCCCCACT  
CTTCACACGAATATGGGGGTAAAACCCAACAAATGGCACAGAGGGATTG  
CAGAAAGGGCGGGCGTTGGGTGGCGCTGTGTTCTGATCCAAGGGAGGGTG  
AAGCTCATGAGAATGGTTCTTTCTTTCTTTTTGAAGACAATCTGACTG  
CAGAGCTCGGTGAGTGCTTCCCTTTCTCTCTGCTTCGTTTCACTGTTGG  
GTTTTTAGGGGGGAAAAATGCTTATCCCCCATAAACACACACATGTAA  
CCCAACCTGGGCTGGAAGAAGGGTCCAAACGTTTATAACTGCAGACTGCA  
ATTATCATTTCCCAATTGGAAGGTGATTCCATCATGAACCATCCACCCATC  
ACAGTGGAAATTCTGACAGTGTCTCTCTGTTTCCCTTTCAGAGGAACG  
TGATAGGAAAATCAGTAAGTGCCTTTTTCTTCCAGAACTGATGGGAAGC  
GATGGGTTAGGGTTAGGGTAAGGGTTAGGGTAAGGGTTAAGGTTAGGCTT  
GGGGAAAAATAAGTTAATACATTTCAATTATGGCTTAGAATTGAACTAAT  
GTTTCATCTATTTCTTGTTTTAAAGGAAAGCTCACATCAGATCTTGTAAG  
GGTTACTTCCTTTAACTATCCTTAATTCTGCAACAGTGCTGGGTATAGA  
GTAGAAAAATATGCATGTGAAGGTGTATGTATGCACATGTTAATTCATTC  
CTATTTATGTACTCGTTAGTTGCTATATATGTATTAATTTATTCACATTA  
TATATATATTTGTATATATTTGCAAATATTTGTATGTATGTGTGTATGTG  
TGAAGAGATTGGGGTTTCTCTGTTGAAGAGGGGGGTGAATGACAGCAG  
GTGTCTTAATAAGCCTTATTTTCAAAACACTAACAAAGGAGAATTGGGAT  
ACACAGAAATAAAGCCTAAAAATGGGAAAAAGAAAAGAATGAAATGGGTA  
AAATATTGAAAAGAACAAAAAGTTTGGAGAAAAGAAATGACAGTTTTGGT  
TGGGTTGGGGCTGCTCTGCATTTCTCCGCTTATTTTCTCCCTTGCTTTC  
AGGTGATGTTGACACAAAGCTCAGTGAGTGGAGCTGCTCTTCTGCCCA  
CATTTAAGAGTATTTTGGTATTTTAAAGACTGTTTAAAGAATATTGGAC  
ATTTCTGTGGAAAATGGATTTCTGGTCTGTAAAAAAACCTGGGGCTTA  
TTTTTGAGGACGGAATAAATGTCCCAAAAAGGGGGATTTTGGCATCAAT  
TGACTGGGAGGTGAAAAATAAAGCAGTGATCTGAGCGTGTGGGGCCAA  
TGGATGAACCTCAATGATCATTGTGGTCCTTTTCAATCCAGGCCATTCTA  
TGATTCTGTGAAGAAAAGAAGATAATTAACATTTAATTTTCTTCTTCT  
CTTCTCATTCCAGAGGAACGCGACAGGAAAATCAGTGAGTGTCACTTTT  
TGGGGCCAAAACCTCTGATTTGGGGAAGGGATCCCTGATAGAAGTGTT  
AATCCTGTTGGTTTTTCCCTCCTTGCAGCCAACTCTCAGCAGAAATACG  
TAAGTCCTTTTCTCCCAATCTGAACTGTTTCTTTGTATTCTTAGACTT  
CCTTTTTTTTTTTTTTCTGTTTTAATTAATAATGCTTTTTTTTTGGTTG  
GTTTTTTTTTCCCTATTTGACAGGCAGACTGACTGCACTGCTGGGTGAG  
TGGTGCCATTAAATCCGTGTGTGGTTTTGGGCTGAAAACCTTAAAAATG  
GGAACCTCTGCACCCAGACAGCTCATCTCTGTGCTTTGTTTCATTTGTAAT  
AGAATAAAAAATGGGGGGAAATGGGCAAAATGAGCATTGCAGTGAGCAGAG  
CTGCTGTCTGGGGCAAGAGGGCACC GCCGTGTAAAAAATACATATATT  
AACCATTTTTCTTCTTTTTTCCCATTTAGGGGACCGTGACTCAAAGCT  
CCGTGAGTGCCACTCTCCTCCTGATTAAAAATCTGAGTGAAGATGTGGATT  
TTCTCAGTGCTCCTACAATCTCACTTTTTTTCAGCACAGTTTTTCCCCAA  
ACTTTGTGTTTCTCCACCCAACCCCTTACACTGATCCTAAATGGGTGTAT  
TGCTGAATCAGTGGTTTTCTCCCTATTTTTTATCTATCCTGTTTTATT  
CCAGTATATGTTTTATGACATAATTTTATGACATATTTTGTCTATGAT  
GCCCATAGACCTTATTACCATTGCCTGCCCTGTGTGGATCAGAAAATATA  
TTTAATATAAAACAGATATCTCTACTGACAGTGATTTCTGATGCACCCAT  
GAAGGAAAAGGATTTAAATAAACTTTAATTTTTCCCTTTTTTAGGCAAAC  
TGACAGCAGAACTCGGTAAGCCATTTCTTCCCATTTCCCATAAACAAA  
TGAAATTATGGAT

FIGURE 10

SUIITE 39

REPLACEMENT (REGLÉ 26)

TTGCTCTAGGACGGTCTGAAAAGTGACCAAAATCTGCTTTTACTCATT  
TCTTCTTATTTTTTTGTAGCAAAGTGCGATGCAACGATCAGTAAGTGCTG  
CTGCATGTGGGGGTACCTCCATCTTCGGGTCAATTTCTGCTGTTTCAGCA  
TTGAAAGGACATCAGAATTCCTTAAATCCAACAAAATTGGGGTCACTCGA  
AGGAATCTTGCAGATATGGGGGAAATCAGAGCCAAATTTGAGGGGGGG  
AGGGAAAATCTCAGGGGTGTTTCAGAAATCCAATGGGATCTGATGGTATT  
TTCTGCTCTCAGGACTGTTTACAGTGGAACCTCGGTGAGTCCGTTTCCTTT  
TTGTTTTTTTTTTCTAATTATTATTATTAGTAGTATTATAAATCAATAT  
TACTGTTGCTTATACATATTGTTGTACATTATATACATAATACATACATT  
ATATACAGTATATAGTATACAGTAGTATATAATATTATGTATTATATATA  
TATAATGTATTATAAATGTCATATCTAATATATGTCTGTATTAGATAT  
AATGCATATATATTATTGTACTACAGTCATATTATAATACATTTACTTAT  
ATCTGCCTTTTCCACACGTTTCATTGACCTGATTAAAACTAAATCCTA  
AAGGCAGAAGAAGATGAAAACCCCCAAATTAACACCAAATAATTGCAGCT  
ATAGATCATATCTATCAAAGCAAATTTGCCTTCAGTCCACATCACGAAAT  
TAACAATAGAAAAGGTTTAAATTTGGAACGTACAAACAATGACAAATAACC  
CCCAATGGCTTTTCTCTTCTGTCAGGAGAGCGTCACACCAAATAGGTAC  
GTGAGGTGTTTGCTACCTTCGTTTGGAAGGAAGAAATGCATTAATAAAA  
CCTCTGTCCAATATGAAGCCGGGGTCAAATTAATCATAAATCACCCTGA  
TTGTCCATGAATTAACAGGGAAAAAAGGCTAACTTGAAAATAACATTT  
TTTTCATCTCTCTTTAAGGGGAACCTCACTGCAGAAGTTGGTAAGTCTCT  
TTCCCATCAGTTTAAAGCAAAAATGGTTCATCAGATATATAAATCCCTT  
ATTTCTGCTTGTGTTTTAGGGGACTACAACAGGAACTTCGTAAGTGCCTT  
TAACTTCTCCATTAAGAGTTAAACCTTTCAATATTTTTGATGCTTCAAT  
GTGCTGAAGCCACCAAATGTGTTTTAATTGTAAAGGGGCTGAGCGTCA  
AACCTGAACACTGCCATGTTGGGGGCTGAGATTCGTGGGATTGGGTTTT  
CAGTGTGAAAATGCCTCTGGGTTTCTGTGCCTGAGCTCAGGGAAACACGA  
CCAGGGCTTCCCAGTAGGAATGAGACCCCAAATATTTCTACCTGGGGCC  
TTTTCCCATTGGGAATTTATTCTGTAAATCCATATTTCTCCACGTTTGAG  
CGTCACTCATCAAATGTCACAATCTTGGCAATGTTGAGAAGATATATAGA  
TATCTATTTAATACTGATTAATATGGAGGTGTTGTGTTGGTCAGTGAT  
GTCTCGGGAAAAGATCTGAGTCATTGAATCCCATTCTTTTCTCTTTA  
TTTTAAGGGAACACGCAGCAGAACTTGGTAAGGGAATTCCTCCCTGGG  
TTTGTCTCTTGTGTTTTCTCTTTGGAGGGGATTTTTCTATGTCTTCT  
TTCTATGTCTTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCTATGTCTT  
CTTTCTATGTCTTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCTATGTC  
TTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCTATG  
TCTTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCTA  
TGTCTTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCT  
TATGTCTTCTTTCTATGTCTTCTTTCTATGTCTTCTTTCTTTCTTTCTTT  
CTTTCTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT  
ATCACCTCAAATGAGCCTGAATGTTTGCAGTGAAGGACTGAGCACAGCTG  
GGCACTAATTCATCTTTATTTCTCTCTTATTTACAGAGGAACGCGATCTG  
AAAATCAGTAAGTGCTGCCCAAGCCATAGGGCTATGCTGGGCTTCATC  
CCCACAACATGAATTTTATAAATTAATAAATAAATAAATAAATAAATTTT  
ATATTTTATGTATTTGATATTAGCAGTATTTAAAAAAGAATAAAATAA  
CTCAAGAATCTTAGGATCAATAGTAACACAATGATGCAACGTGGATACAA  
AAGCAGTAATTCCTATTTCTTGGGTTTTATCCTTCAGGGGAACACGA  
AGCAGAGATACGTGAGTGTTATTTTATATACTCTATAATGGAAAACCTTT  
TTCTCTGTAATATAAAAATAGGCTTTATTATTTGAGGGGTTTTTTGGCTT  
AACGCAAATGCGAAGTGCTTGAAATCTACGTATGAAATAGAGGATTTCC  
CATAGAGAAAAACAGCAATTTGGGGCTGGAATAAAAGTTTCATTTCTTG  
CTGAAAAGTGAATGAAAAGGGGGGAAAAGAACATAAAAATTGAGTTTTT  
TCCCTCATTAATTTGTGATGAAATGGGTTGGGTTCTGAAATGGTGATGTC  
AACACCTCGTTTTTGGGTTGACCCCAACATAATATGTGTCTGTCCTTTATT

FEUILLE DE REMPLACEMENT (REGLE 26)

FIGURE 10

SUITE 40

78/110  
COSMIDE.txt

TCTGTATCACTGGTGTAAAGAGAGCTGTTTTGAACTAATATCTCTTTTT  
TAATTACTTTTTCTTTTTCTTTTTCTTTCTTTTTCTCCGTTTCTCTC  
TGTTTTGCTTTAAGGGCGCCTCACTGAGCTGCTCGGTAAGTGCAATTCCT  
TCCTTGCACTGTCAATCCAGCAACAAACCAAGCCTATTTTGGGGGGGA  
AGGAGGGGATAAAACACAATAATGATGAAATCAGTGCTTTGGAAAGGGTG  
CAATTATTATTTCTCCTGCAAATGAATACTTCTTTTTCCCTTTTGTTTGC  
AGAGGACCGGATTCGGATGTCGGTAAGTCCTTTTGTTTGTCCCGGAGCT  
GTGAATCCTCCAATGGGAAATGCAGAATTCAGAGTCTGCCCAAAAATG  
ACCTTTTTGAGGCTACAAGGGATGGGAAAATAAGGAGAAATGTCCTTATT  
TATTGATCTCCTTGTTTATGTGCAAACTGGGTGACTCTTCTCTGCCGAA  
CACGTTAGAAATAAGAACACAAAATGGGAGGAAATGGTATTTATTATAT  
CTGTTGTTTTCTGTTTAAATTTTAGGAGAACAGGACATCCTCATTAGTA  
AGTGGCACTTTGGATTGATAAGAAATGCAGCTCCTGGGGACGTTTGGGTG  
CTGCGATTGCTGGCACTGCTGGGGCTTTGTGTTGTGGTGGAAGTGGAATT  
ACTTCAAAAGAAGAGAAGAATGGAATTATCTGGAGAAAAAGGGGAATAAA  
TGGAAGTGTGGGAAAAGAAGGAGGAATAGAATGGAATATTGGGGAAA  
AAAGTGAAATAGAATGGAATTATTTCAAAAAAATGGAATGAAATTTAGG  
GAGGGGAAGGGGAAGTGGAATGGAATTATTTGGGGGAGAAAAAGGGGAA  
AATTGAATGACTGGGGGGGGAATGGGGAATAGGATGGGAGTATTTTAAA  
AATACAGAATTGTGAAGGTTTCAGCCCATCTCAGAGAGTTTGGTATCCTC  
GAGTTCCCCCTTTGCAACCCATTGAGCATCCTTGGGATGACACCAAATTC  
TGTTTTCTCCTTTTCAAGGGAACTGTGAGAAGAGCTCGGTGAGTATTT  
CCACTTCTTACATACAAAATGATTCTGGATATTCTTTTTGTGTGTTTTC  
CTGCTTTGCCTCTTTGTGTTTTAAGAGGCAACTGCAGAAGGAATGGCACA  
AAGGGTGCAAGGATCTTTGGGATAAATAACAGGGAAAACAGGGATGGGA  
TAGCAATGAGTTGGTGCAATAATCTATGGCACAAAAGGTGACGGCGTGTT  
TCACATTTTGCTTTTTCTCTTCTTTTAGAGGAATTAAGGGGTGCGGAAG  
TTGGTAAGTGAGATTCCTTCCCTCTTCTCCCCAAAAGGATAAGGGGTAA  
TTTGGATTCTGATCTCTTTTCTCCCTTTTCTTCTCCTAGAGGAGAGTGTT  
CTGGAGAGGGGTGAGTATCATTCTCTTCTACTGCTGCTTTTGACTGAAG  
GAATCCCCCATAAGCATGCTGGTGGGATGGGAATTCTACATCTGATACAC  
AATTATTATCATTTCTTCATTTTTTATACACAGAAATAGATAATTTTTTT  
CCTTTCTTTTCTTTTTCCCCCTTTTTTAGAGGAACATGATGCCAGAATT  
GGTACGTGTCCATCTCCCCCTGCTTTTGTGGTGTCTTCAAGAAGGCCAAT  
GGGGTCATTTGGGATTGTTTGGGTTGAGGATTGGGTTCTTGATTGAATTT  
GGGGGAGGATTCAGGTGCCCCAAACACAACATCAGGTCCCATCTCATGTTT  
TCCTATGGGCTTGGATCCTTCTGTTGGATACCTAAGAATACCTGAAATCC  
ATAATATGCCATTAGAAGTAACACATCCATCAATGATATATCCATAGAAT  
ACAAGAGAACGGTCTACATTTACTTCAGATCCCATTTTCAGGTTAACCAT  
GAAAAAATACCCAAAGACTGAATGTCACCATTGAGGATCCCGTGTGTA  
AAATCATGACTTCTGCTTTAATTATAAGAAAAATGAAATTCAGTGTTTTT  
ATTCTCTTTTAAAGATGAACTCTCAACAGAAAGTTGGTGAGTATTTTTCTGC  
CCTCCAGCAAAACCAAGCATGCAGTTTGAGTCTGTTTTGGATATATAT  
TGTACGTGGATATATAACCTGTATGTTATAACACCTCTGGTTCCTTTTC  
TCCTTCTTTTCTCAGAAAAACGAGAGAGAAGAATTGGTGAGTATCAAAC  
TTCCCCCAGAAGTGGACTTTGGTGTGTTGGGAAGATCCATACCACCACG  
TTGGTGCCAACTTAATGGAAATCCTTTGTTTTTCTTATGTTTTTCTCAGA  
TGAAGTCACTGCAGAGCTCGGTAAGTCGTGATTATAACTCATAACGAGTT  
ATAATGCTATTGTTATATATAATATACATATTATATATTGTTGCTATAAT  
TCATAATAGACCAACAATCACAAGGCACAGAAATATGGGTTTGCTTTGA  
GAGCCAAACCTTAGGAAGTGATAACACAATGGGAAGAGGACAATGACCAT  
TTCTGTTGTTCTCTTTTTCAGAGCACTACAAGGCAAAAGCAAGTGAGTGT  
CTCCTTCTCATCTTCAGCACGTGAGAGATTTTGGGGGCTTTTGGGACGG  
CTATGGGGATTTACACATAATAAAACAGAAGATGAGAAGACAGTTTGTTA  
ACTTGAATTCAACTGGTTTCAATTTGCTGAAATTCAGTATATAATATC

FIGURE 10

SUITE 41

FEUILLE DE REMPLACEMENT (REGLE 26)

79/110

COSMIDE.txt

TCCCCAGTACCCAATTATACAATGGGATTAATTACAGCCTGCCCAGGAAA  
GGAGCACTGAATTTTTTTCCTGCGTCCATCCAGCATGAAGTCCATCAGACT  
TAAGCTTACAGCTTAAAGAATGGTTCATTTTTTTCATTTAACCCCTCGT  
AAGTTAAAGATGGACTTCAGCATCACAGAAGTAGCCAGAAATAGTCAA  
AAAATGGGTCATGAATTTCCAGAGCACCCCCCACACTTTCCTTGGTGAA  
TAGGAAAACAAATATTAAACTAATTAATTGGTTTTTTTTTCTTTTTAGG  
AAGATGTTTTGAGGAACACAGTAAGTGCCCTTTTCTCCCTTCTTTAAGCA  
TCACTTTTCACTTTAAGTCTGCATCACAGTTAATAATCCATCTCCTTATT  
ATGCATTTTTAGGGAGAGGCGAAGAAAAGTTGGGTAAGTCATTTGGTTAA  
TTGGGTTTCTGCTTGACAGACCCCATCCAGGAGCTCATGTCTCCTCTTAG  
TGTCTGCATGTAGAAATATCCAGGTTAGACGTGTAGGTAGGAAATACTG  
GACCTGCGTGGAGGTATTGACAGCCCCATTTATGTGTAGGGGAAGCAGAA  
CATCAAATATTGAGCCTTGAGCTCCACGAAGACAAGCCACCCTCTTAGA  
TTTCAAGCGAAGTCGAGCTGAATAGATTTAATTCTTTCTTTCCCATAGTA  
AATGTGACTCTGGACCCAGAGACGGCCACCCTCGCCTCGTCTCTCCAA  
GGACCAGAAGAGCGTCCGATGGGAATACAGCCTGCAGGAATCCCCGACG  
GCCCCGAGCGCTTCGACGCCGATCCCTGCGTGCTGGGTGTGAAACCTTC  
ACCTCTGGGAGGCACTGCTGGGTGGTGGATCTCACAGAAGGGCAGTACTG  
CGCCGTTGGGGTCAGCAGGGAGTCCCTGCCAGGAAAGGAGCCGTCAGCT  
TTAACCTGATGAAGGCATCTGGGCTGTGCAGCAATGGGGGTTCAAGAAC  
AGAGCCCTCACCTCCCCCTCCGACCCCACTGAACCTTCCACGGGTTCCTCAA  
AAAGATCCGCATCTCTGACTACGAATGGGGCGAGGTGGCGTTTTTTTG  
ATGTGGAGAACCAAATGCCCATCTTCACTTTTCTCTGACCTCCTTTGGT  
GGGGAGCGGCTCCGGCCGTGGTCTGGGTGGAGCTGGGCTCCCTCTCACT  
GCCAGATAACCCCGGAATCCCTGGAGGTGCTGTGGAGGTGCCTTACAGC  
AGCTCTTCCAGACCGGGGTGGAAAACTCTCAGGAAAAGCAGCATTAAAA  
CCTCATTTCTCCCTCTTCCCAGTCAACCATTGTCATGCAAAAGAAAGGAAA  
CCCATCCTCAATGTCATCAGCATCCTCCGTGTGTCATGTCTGGTGGCCCC  
CATTGATGTATGGGGTGGCTCCTGTTGGTGTCTGGTGGCCCCCTATTGACG  
TATGAGGTGGCCCCCATTGACGTGAGGTGGCCCCCATTGACGTGAGGTGG  
CCCCATTGACATATGGGGTGGCTCCTGTTGATGTCTGGTGGCCCCCATT  
GACATGAGGTGGTCCCCATGACCAGCCCCCTACCCTGGATCCAATGCCTCC  
TGATTGCAGTTCCAACTCTAGGGACGTTAAACGACCCACAGAGAGGATG  
GGGTCTCTTTGGTCTGATGGAGAGAGGTTGGCACCAGGGTAAGTCGCTG  
CCTACATCACCCTGGTGTCTTGTCTCAGCAGCTGGTGTAAATTTCTGCC  
ATCTGGGCTATTTCTGTAGAAAGCAAAGAAGCTCTGCTGGTGGGCAGCTC  
ATCTCCAGTGTGAAAAGCAAATGCAACGCATGCACCCTGCTATCCAT  
GTGGCCATCCCTCTCCATCAGCTGTTGAAGGAGAAATCTGCACTCAGAAG  
AGATTGAATTGGGCTCAGATCTGGCTTGGGAAGATGATGATTCCAACCAG  
AGTCCAGGAGACTTTGGGGAATGCATGAATCCTATAGGAAAATGGATAAC  
CCTTCATCCAAGAGCAAGCTGGCATGATGCTCTGGGGTGAAAACCCATAA  
TGCCACCTGGTTTTAAGGTTTGGGGTGGCTTACAATGTGCAGCTCTGCTT  
CCGGCGAGGCACTGGGAGCCCTAAACCCATGGAGAGGTCAAACCACTGCT  
GGAGGTCATTGTGGGCCAGCTGCAATGGGAGGTAGGCAATTATGGACAT  
CGCTGAAGCCACCCACGCTCTGGGGAACCTGGGTTTTTACCTTTTCACTG  
CACTTTAATGGGATTTCTCATCAATGTCTGCATGTTCTTGGCCACCTGTT  
TAAAAATATAATAATAATAATTAATCTTTTGGCCCACTGCGGGATGAGC  
AGCTGGTGGTTCCCAGCTCACAATAAACCACACTTGAGACTCCCTGGAGA  
ATTGCTTTTCTTTTGCAGCTGGTTCCATGTGGGGCTGTTTCCAGCCCTCT  
GCAGCTCATAGGCTTTTCTTACAGCCTCTGCTCCACCTATTGCTGAAAA  
GGGGGAAATTTGAGATGGATCCCATTTTGTGAACATCTCCACCTGTGGG  
TAATGCTCAGACCTCTCAGCCCTGTGGGTTTAAATTTCTTTTCTGACCT  
TAATGGGTGGGGATGTTTCACTACTGCAATAATTAGTGATGGGATAGGGG  
AGGCAGGAGAGGATCCAAGCAGGGGAAAGGGGAGGGGAAGGACATACTGT  
GTGTCTCTG

FIGURE 10

SUIITE 42

REPLACEMENT (REGLE 26)

80/110

COSMIDE.txt

AGAATACCATTCTCCCTATGCCAAAGCAGAACTGAGGGCAAAAATAGTG  
GTTATTTAAAAATATATATGTTTTAATTGACTATCAACAGGGCGAATGGC  
ACAAAGGTTGCATCACGCTGTGTGGTGGGTTTGATGCAACTCAAAATTG  
CAACTAGGAGTTCTGTGCTAAGTGCTAAGGAAAAATGAGATGAAAAATG  
AGATGAGAAGCCGCCAGCTGTTTAATTAAAGCAGTTTGGTGACTGTCTG  
GCTATGGTGACTGAAGTAAGCAAGCACTGTGCTGCAAATGCCCCATCTC  
TCCTGGAAGTCGAGGATATTTTCCCCTGTGGCCAATAATGACAGAGCATT  
TTAAGCCCCAAATCTTTATCCAGCCAAATCCACAATGGAGACACCGATCT  
GCAGGGAGATTCCAGATAGCACATTCTGTGTTTCCTTAAATAGGGCTGAT  
ATTTCCCTCTGTCCACATGTGATCCATCTGAGCTCACACAGCCCTTAA  
AATCTGCAAGGATCTTGTCTGTCTGCCTGGCGGTGAGTGTCTTTTGGGG  
CTATTTGGCACCATTTTGGCAACGGGAGTTGGCAACGTCAACCTGAGTTC  
TTCCAGAGTTCTATGAAAAGCTTTAAATCGGGTTTTTGCATTTTTCCA  
CGATCCACCTCTAGGGACCAAGCTGGTATTGGGGGGGGGGGGGGGTGTGC  
TTTCAGGGGGGTTTTGGGTTCTGTTTTGGGGGATATTGGCATATAAAGGT  
GGTTTTCACCTTTGGGATGGGCCTTGGAAGGAGTGTGTTGTTGGCTGTC  
CCGTTGCCTTCTTCTTACAAAGCCTTCTTCTTACAGAGGCTGCACCA  
GGTCTCTTTTAGCAGATCACAAGAGAGGGCGCAAAGAACGAGGTTAGAA  
TTCAAGTTTTTAGGTTGAAATATGGGTAGGATGATTGAGTCTTCTCCT  
TTGTCCGTACCAAGCCTGGAGATACCAATCTGAGATGTCAAACGCACAA  
TGGAGCCTTCAGTGGGATGAACTTCAGGCCAGATGCCAAGAGAGGTGTT  
AAGTTTTGGTTAAAGCCACATCAGTAGCAATAGAAAGAAATGGGTGATT  
CATCCCTTCCAAACTCACTTTTGAAGAAATTAGGGAAGAAATCCCGC  
TTCCGTGCTGAACCCTTCTGTATTTTCACCCCAGGGCAAAGAAGGAGGAT  
CGCGAGAGATTGGAGACCACAGCACCATGGCCTCTGCTGCTTCCAGAGCA  
AAGGAAAAGGAGAGGGGGGCTCCCACCACCCTATCCAGAGCATCAGAT  
GGGCAATGGATGCAGCAGCTCCGTGGGTCTGGAGGTGGCACGTGGCAGG  
AGCGAGGACGGCTCGGAGATACCGAGGTCTCAGCCACCGAAACCATCTC  
AGGAAAGGGAATTTCCACACAAAACCTCATTGGAGCACCTGGCAGAGAA  
GCTGAAGCTTTTGGGGCTGGATGGAGACAGAGGGGAGAAGGAGAACTCT  
GCTCGTGGCGCAAGAGGACATTTCCCTCCAATGGACCACGGGATGATGGA  
GGTCCCACTGGAGCCCCCATAAAGGAGTCAGTGCAGGAGGATGTGGTCAG  
CCCTGTGTTATTCCTAAAGCCCTGTTTAATCCTTCATGTCCATGCTGAA  
AACTTCTTCTCTGCGAAGTCCAACACATTGCATCTCTTCCCTTCTTCTC  
CCATCACAATATCCTCCCCAAACCCCTTTTCTTCTCCTCCAGGAGCAGATT  
CACAGCGATCTGGAGAACCTCAAGAAACAAAAGGAGGAGCTCTTAGAACT  
CAAAAGGAGTGGGGAGAGGCGATGCCAAGACCTTCTGGTAAGAAGCTGTT  
GCCTTCAAGCTGGAAAAACAGAGGTCTTTTGGGGTCCACGTTGTTGATT  
TTCCACAACCTACAGACACGGACGGAGGCTGAGAGGCAGAAAATTGTGTC  
AGAATTCGCTCAGCTCCGCCGTTTTCTGAAGGAGAAGGAGATGGTGCTCG  
TGGCACGGCTGGGGGAGCTGGACAGGGCTGTGCTGAGGAGGCAGGAGGAG  
GAGGAGGCCAAGGTGGAGGGGGACATTTCTCTCCTCGGCATCCTCATCTG  
TGAGATGGAGGAGAACTCAAGCAACCCACACGTGGATTCTTACAGGTTG  
GATTCCTACGGGTTGGATTCTTATGGGTTGGATACTCCATTGGACCCTCT  
CCCTTCTTGTCCACCTTCTCCAAAGCTGGGGGAGATTGAACCATTTTTTC  
CTATCTCTTTCAATTCCAGGATGCCAGAAGCACGCTGAGCAGGTATGTGC  
TCCTTCAACCTCATTCAACGGGGTGGAAAGGGTTCCCCATCCCCACACCC  
ACGGATTCTAGCACAGAAATGAGAAATGCATGTGATTGAGGCAAGGTTGG  
AAGTCCCATGGGGTCAAAAAGTGCCTCAGTGTAGGAATGGCCCAAGAGA  
AAGACCTCGTGGCCATTGGGGCGACCCAAGGGACCGCATTCTGTACGGAG  
CAGGTTGGCATCCCCAACCTGTGACAAAGGGACATTCTGGAGCCAACCA  
CCTCAACCTCCATCCCCACATCACCAGAGATCCCCACACTCATCACCACC  
AGTCCCAGCACTGATGAGATTTGTGTCCAGGTGGGAGAGGGGCAGAACAC  
GAAGGATGACAGAGTCTTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
TCCCAGCAACATAAAATCCTCAGGGAGACGTTGGGGAGATTCCAAGGTAT

FIGURE 10

SUIITE 43

81/110  
COSMIDE.txt

TGTGGACCACAGTATTCCTACCACATAGGATTTGCTTTGTACTGAAGGTT  
GGGGGGTTTTTTTGGTCGTTTGAATAGGAGTTGTATACACTATTGGAAAAC  
AATTTGCATTAACTCACACTATCAATCATTCTTAGGCCTAAGAGCATCTG  
TTTTTTAGGACCAAATCCCACAGATCCCACATAAAATCCTGCACAGATAT  
CCATGATAAACATGGTGGGAAGTGAAGCAGGCAGATGTGGGACATGACAT  
CCAACCTTCTGTTTCATCCCCAGATCTTTTTCTATCTGAGCTGGAGAAGGA  
GGAGGGAGCATCTGTAGGAGAAGAGGGAAAAGGTGAGTCCTTAAAGCATT  
TTCCTTTTGCTCCATTGGTCATTTTTTTTAGCCAAAATACTGCGTCAGAGC  
ATCTGGAAAATGATGGTTTTGAGCTCATTTCTGGTTTCCTAAAGGTGATA  
TAAAGAAGCTTTCCTATATTTTCAGCAAAGGTTTTCTGAGCTGGAAAATAT  
GGAGACATCGCTGATCCCAAAGTAGATTTGGGGTGCTGTTCCAGCTTTAG  
GGTGATGCTCACCCATTTCTTCTCCATCCCCAACAGCGTTTGTACCCTG  
GACCCCAACCACTGCCACTGCAGGGCTCGTCCTGTCCCGGGACCGACGTGG  
GGTGAGATGGATGGATATGGGGCACAACATGTCCCCTTGTCCCCAACGCT  
TCGATGTCTCCTGCTGTGTGCTGGGCTGTGAGGCTTCACCTCAGGGTGG  
CACTTTTGGGATGTGGAGGTGATGGGTGGTGCCACGTGGGCACTCGGGGT  
GGCACGCAGCTCTGTGCCAGGAAGGGTTGGCTCACTTTCCACCCCGATT  
ATGGGATTTGGGCTATGGGATGCTGTAGGAACAGCTTCCGAGCTTTCACA  
TCTCCCCCATCC

FIGURE 10

SUITE 44

82/110  
D12FOR.txt

GGGGGGCGATATGGGTGGTGGGACATGAGGGGGCCGGGGGGGGTCTGGGTC  
TCACCCGCCAGCAGCAGCCGCAGCCCCGCAGCCATTGCTCTCCGCTGCTT  
TCGCTTTCGGCTCCGCTGTGGCCCCACCCCCTCCGTCACTTCGTCAATAT  
TAATTTTAAATCCCTGAAACCCATTAAAAAAGGGTCGGAGAGGGAAAAC  
TCATTCAGGAACAGTGTTGGAAGAGGGGACATGGGTGGGACAACCCGGCT  
TTCCCCACAGGCCGACCTAAACACAGCCACTGCCACCCACCCCGGATCCA  
TGGGTGACGTAAGGATGAGGTTCCAGCACATATTGGACCCTTCTGCGTTT  
GCATGG

FIGURE 10

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SUITE 45

83/110

E1REV.txt

GTGGGGGGCAGCGTCCGCGCTGACCTCGTCTCGCTGTGTTTCAGGGCGCC  
CCGTGCGCGCGCTCCAGGTAACGTCCCGTTCCCATTCGCGTCCCGTTC  
CCGTTCCCGTTCGCGCTGCGCGGAGCGGCCCCGATCCCGGCGCGGGGCT  
CAGCTCTGCGCGTCTCCCGCAGGGATGCTGAATTAGCTGCTGCCCCGCC  
GAGCCGCTGCACCCGCACCCCCCGTCTCCCGGCCGTGCGCTCGGCTCTC  
CCTCGGGCTGCCACCGCGTCCGTTGGAGATGTCGCCACGATGCACGCTTC  
GTCCCCATCCTAATAAACGCGCTGACTTTGACCCGCTGTTGCTGCCCCG  
TGAATCATTGGGGACTTTCCGTCGCGTGGGAGGAGGGGAGGGAAGTGAAA  
GCTTCGTGGAGAAGTAAACCCAGCACCCCTATGGGTCCCACGGGACGTGGA  
TTGGTGGGGATGGGGTGGGATTGGACTCTTGGTGGTCATTTCCACCCATA  
GGGAGCTCGCGGCCACCCAGTGGTCCTCATATAGACTCCATGGTCACACC  
ACTGTACCTTTTTGGTCACCCCATGATCCCTGTGTTACCCCTCCGGGGTCC  
CTCAGTGGTTACCCACGTTCCCCCAGAGGCTCCTCCTGTGCGCTTCATC  
ATCTCACCCCATTGACCACATACCCCCCTCCCCCTATGGATAACCCAAAG  
CCATCACCAGTGGTGTGGGATGCAAACACGGGGCCCCGGACCTGTCCCT  
ACAAGCACAGGGTGGTGACACAGCCCAGACAGTGATGCTGTGTGCTTTGT  
CACCAGGCAGAGGACACACAGCCACAGCCTGGCTCAACTCGAATAATATT  
TTCTTTATTTACATGTTAAAGAATCGAAAGGTGGAAACATACAGTAAGA  
TGAAAACACGGCTCTAAGGGTCTAACAGTGGGGCAGGAGGGTGGGGGGGA  
GGAAAAAAGAAAAAGGGAAAGAAAAAACCAAAACAAGTAGAAAAA  
ATGATACAGTCAACGTAAAAAGGGGTGGCCCTCCCTCCCCAGTGGGAA  
CATGCGGCGCTGCGTGCCGGGGGGTTTTATGTACAGGGGCGGGCAGCTC  
CAATAAATTAAACCTCCAATACAATGAGGGGGGAAGGGGGGGTGCAGA  
GCCCTCGCTGGGTGGTTTTCTTCTTTAAATGCTTTTTTTTTTTTTTTGT  
AATTTTTTTTAATTTTTTTTTTTTTTAATTTTTCTTAAAAACCCCAAACCTT  
TTTCTCCCCCCCCCTTTTTTTTTTTTTTGGAAAAAATCCCACGAGTCAG  
GAGGAAAAAAGAAAAAGCCAACCCTAACACAACAAACAGTAAACCT  
GCTGGGGGGCACC GCCGACCCCCCTTGTCGACCCACAGCCCCACACT  
GCCCTGGGGACGCTCGGGGGCCTCCGGTCACACCGGGACCCCCAGCTGAG  
TCCATGGGGCGTCCCTGGGCTGCTGGGGGGCTCTCGGTCTGCTCCATGC  
CGGCCCCGTCTGCAGAGCCGCTCGGGATGCTGCGCCATGTGGTGCTGTG  
GGGTTAACC CGAATCCGAGTCGCTGGTGTCCGAGGACGAGGAGCTGGAA  
CTGGAGTGTGAGTGGAGCTCGGAGCTGGAGCTGGAGGCGCTGAGCCGTGAAAC  
AGCCACCTGCTGTGCTGACTCGGGCTTCTCGTTGGCTGCAATGGGACAAC  
ACTGCGCTCAGCATCACACAGATCACACCCCAATCCCACTCCAGACCCC  
ACACTCACCTTTTTTGGGGGTTTCTTGGCTGAGTTGAGCTGCCCCGCTGA  
CGTCTGCAGCCGCTTCTCCAGCTCCCGCTTCTTCTCCAGCGCCAGTTCT  
TCTTTCTGCTTCTCCACCGGCTTCTTCATGGCTGTGAAATTCAGGTTTCAG  
CCCCACACCATCCCACCTCCACCCAGGGCCGCCCTGAAACGCAGCCCC  
CCACTCACTCTCGCTATAGGGTTTGCGGGGTTTCTTCCGCAGGCAGGACA  
GCACGTAGCGCTCCAGCTCACGCAGTGTGGAGGGTTTGAGGGTCTCGAAG  
TCGATCTCGATCTCCTCGGGGTTGGAATCACGCAGTGAGGGCTCCCGGGA  
CTGGATGATGTGCACACACGGCCAGCTTCTCCCCGGGCAGTTTGTGTA  
TGTCAGGCTCAACTGCCTCTTCTCATCGTACGTATCGGTTTGCTCTCC  
TCTTCTCTTCCGAATCGTAGAGCGTGGGCGGAGGCGGCAGCGCCGCTTT  
TGCTGCTTTCTTTGAGTTCTTGCAGGAAGCAAAGCACCATCAGGAAATG  
AACCTCAGGAATCACCCACAGCTGACCATCATCCCCAAAAACAGCCT  
AGACTCACTTGGAGCTGCCCCACCGCTCCCCCGCGCCACCCTTCTTG  
GCTTTGCGGAGCTGTGCCTGACGCGCCCGGCTCTTTCATCTCCTCCTCG  
CCCTTTGTGCTTCTCCGATTTCTTCTTTTTCTTTTTCTCCGCTTCTTTT  
TGGGTTTGAAACGGGGCCCTGTGAGAGGGCAGCCAGCTGCTCGTGCACG  
GCCCCGAGCTGTGGGGGAGACAGGGGGTGAGGCGGGCATGGGGAGCAGG  
CACAGGCAGCAGCACCGGCCAGCTCCGGCCCTCACCTGCTCCTGCAGCT  
CTGCCAGGCGGTTGGCACGTTCTTCTTCCGAGTCAGAGCTCTCCTCGCTG  
TCTGATGAGCT

FIGURE 10

SUITE 46

84/110  
ElREV.txt

TTCATCTTCATCATCCTCATCGCTGGAGGATTCTCGGAGGAGGATTTGG  
AGAGGGCTCCAAGCAGTGGGGCAGACACTGAGGGTGGGCTGGCGTCCTGC  
GGCTCATCAGGCATCTTGGCGTAGCTGAACTCAAAGACATCCTGAGAGAG  
AGGACACAGAGGGGTAAAGCTGACTGGGCTGGGGGTTACGGGGCTGCTGGG  
TGACCCACCCACCTGCAGCTTGGGGCCATGGCCACCACATCGTGGTTCG  
GGAGGGTTGTATTTGTAGCAGTTGGAGAACATTAACCGGACATCAGCGGC  
AAACTCCTGTGCGTCATGGTAGTCCCGGTTCTCCATCTTCCGCTGTGGGA  
AGGGAAAGGCGTGAGCAGACCTCAAAGCCACCCCAAAAGCCCCCATGA  
GGCTGTGCCAAGGCCACGGAGTCCCAAGCGAACCTTGATGGTGCTGAG  
GTCCATGGGGTGTGTGATGATCTCGTGGTAATCGTGACGCCCCAGCGCCG  
AGGACGAGACCGGCTTGTAGAAGGGCCATGCGTAGGCAGCGTGCTTCTTG  
GAGAGCAGCTCCTTCAGAATCCCATTTGCAGTATTTGAGCTGCTCCGACAA  
TTTGCCCTTTTTTGGAGGTCTGATGCTGCTGGGAATCCGGCAAGTCCTTCT  
TGGGGGGTTTTGATGGGGCGGCCGCTCTCACGCCGTGCGGGAATTTTGGCC  
GCCTTGGCCTCCAGCAGCGTGGCTGACGGGGAGGATTACCGCTGGTGGC  
TATGATGGCGGTGGTGGTAGGGGTGGTGGTGTCTGCTTCCGCTTCACAC  
CCTTTTCTACCAAATACAGAAAGGTTGATGAATGGGAGGCCCAGCACA  
GCCCCACAGAGCCTCCTCCCGTGAGCGAAGAGCTCCCATCTCCACCTTGG  
CCACGGGTGGGTGGGCGCAGGCGCAGTCAGCACAGCCGGGGCAGTGAGG  
TGCAGCGACTTGAGGAGCGGAGCGGAGATGACGGACGGGTGGGGAATGTT  
GACAATGGTGGTGGCGATGTCGGGGCTTGGGGTGTACACAGCGGTGTGGG  
ACACAGAGGAGACAGCTGGCACTTGCTGAGCCGCTGTGAGACCTGCCAGG  
AGCGCTGCGGACAGGCAGAACCCCCATTAGCACCAAGGTACCTTCAGTGC  
TCTA~~CT~~GAAAGCGCAACCCAAAGAACCCAGGTACCTGCTGCCCGCGAC  
GCTCCCTTCTTGTGGCTGTTTTTGGCCACTGGGACCACGATCTCCTGCTC  
TTCTGGTGGCATTGTTGGGCCACCTTCTGCAGGAAGATCTTCTCAGGGTTT  
GGGCCATCAGCACAAATGTCATCTGTGGGCTACAGGGACAACCGAAACGTC  
ACAGGATGCAGAGATGGCATCAAAGGCCTCAAAGCATCCATGCTGCAGTC  
CTCACCTTGTTATAGATATAGCAGTTTGTGAACATGGTGGTGAAGTCCTG  
CATGCACTCAGCTGCCCCCAGTAGTAGTTGTTCTCCAAGCGCCGTTTGA  
TCGTCCCCATGTCCATGGGCTGCTTGATGATCTTGTGGTAATCCTGCATA  
GGGGATGGACAGTCAGCGCCGTGTTGGTAACCACACTGCACCCCTCCCAG  
CCCCAGAACGAGTGGTTTGGGGTTTTTAGGAGCTCAACATCCCCCAAGT  
ATCAGGACGTTGACACGCACACAGATCCGCTCTCGCACCATGCATCAAAA  
GCAGGGCAAAAGGGTGCAAAGGGATGGAAAAACACCTCCGGGTCTGGTCC  
CCGCCCGAGAGTGCCACCGTGCTGCTCTGTAGGGGACCTTCAGGTGCTCT  
TGTGGGTTGCCTACGCTATAGGGACAGCCAAAACACTGCTGTCCACAGCA  
TGAGGTGCAATGGGGGCCACTAATGCTAAAGTAAGAGCAAACCTATGTGG  
AATTTACCTCTGGGCTTTAAATCCTTGGGCGCCACAGGTACACAGGGGGC  
TGGCGTTTTAATATTGGGGTCACAAGATGTCTTCTACAAATTTCATGGATGG  
GAATCTGCAAAACGCATTACAGGGCACAAAGAGATTAGGTGAGGAAACATCC  
GGGTTCCCTCTAGAGCAGCTGCGTCACCTCACCCATAACCGTGCGGTGGC  
ACTGGGAGGGGACAGCAGCTCTGAGGACATCAGGTCACCTACTGGGGGGG  
CTTCAGAGCCTGTGGAGTTGGGATTATGCCCCTAAGAGAGGGCGAGGCCA  
GCACAGCCCAGGCACCTGCAGCTGCATCTCTGTGGTGGAGCCCATAGAGG  
GGACAATGCTGTCCCTGTGGCACTCTCAGGCTGGGGACCACGGCTCGGGG  
TGGCCCTCAGCACCCAGGGGACAAGTCTGGGGACACACAGCCATGCTGGG  
GGACCCACAGGAGGGGACACGTTACCGGCAGACCCAGCTTGACGGCGTTCG  
ACGGGCTGACGGAAAGGCCAAGCGAACTGGTGCTTCCACAGGGCTTTTCAT  
CACCACCTTTGTGACAGGTACTGCAGCTGGTGGTGACCCGGCCGGGCTTTT  
TGGGGTTCGAGACCTCTGGCGGAGGGGGGTTCGCCTGGGGGGTCTGTAGG  
GCCGGCACCGAGGCCATGGTGGGGCTCTCGAAGCCCTCGTAAAGCAGCGA  
GGGTTTGGCGGATGCGTTTGGCCGGGGTTCGATTCCGTCGCCAAACCCATAA  
GCCCGGCATTTCCCTCCCCAGAATCCTGCAAGGGAGCAAAGACAACAT  
CAGCAAGGATGGGGCCAGCGTTCACCACCAAGGTGCACAAGAACAGCTC

FIGURE 10

SUITE 47

85/110

E1REV.txt

AAAAAAGGCCAAAAAAGTAATCAAAAAAGGAAGGTTGGAGCAAACAAA  
GAGTCAGTGCAGGGGGTGACATCAGGGCCCAGCAGTTTCACCACCTCGGG  
GTACGACAGCCTGCACTACAGCATGACAAGGCAGCACCCAAACACTGTGG  
CCCTCAGCTGGATACACAACAGTGGGCTCCAAATGTCTGGGGACGGGGGC  
AGAATTATTTAAGTGGGGAAAATGAGGATTTAAGCAGCTGGGAGAGGTGG  
GATGTCTGCAGCGTGAGGAGAATTTGTACCGGGAAAATACGGTGAATGT  
CGAGCACTGGGGCTGCTTTCTCAGGCAGCTCCCAGGGTGTTCCCCATCCT  
GCCAAGGACGTGGTGGGAATGACAAGGAAGGAAGGTGACAGAAGGACACA  
GCGGCCCCAGTAGTGGCGGTACAGGGTGGGAGGACACGGTGAGACCCCTC  
AGCATGGTGACAGTGTCCCGAAAGCAGCTCAGTCAGCAGAGGTGGCAGC  
AGGGCCCTAAGGGCCCTTGTGATGCTGACCCCAAGGACCAGGGGTATGAG  
GAGTGGATAAATGGGGGTGGCCCAGACAGGATCCATGGGAAAACAGGGCT  
GCCAGGTTCCCTGTAGGATCTGTGTCCCTGCATCCCTGACAGAATTCACA  
TGGACCACGGGGCTGCCGAGTCCCAACATCCCTGAAGGACCCACAGAAAT  
GGGAAGTGGATAAATGGGAACAAGCAGCAGATCAATGGGACTCAGTGACC  
CCAACTCAGAGCTCTGTGACAGAAAAGCCCCATAACTCTGGTGGACATC  
CACACTGCACCCTAATCCCTGGGCAATGAAGGGATAGCAGCAGGGAACCA  
CTGTGTCCCTGTATCTCTGACCCCAAAGAATCCATGGAGATGGGGAATGG  
ATAAATAGGGATGGCTCTGTAGAATCCGGGTCCCATTCCCCTCAAATAAT  
CCATGGGAATGGCACTGTTGGATGCATGGCCTTGAGTCCCTGTCCCTAAA  
AATCTGTAGGAATGACTCTGTGCTATGCACCTCCCGTGTCCCTGTTAGG  
ATCCATGGGGACAGCAGGCTGCCAGGTCCCCTGTATGATCCACAGCCCTA  
AAAGCAGCTTGGTCAACAAATGGGAGGGAACAGCGGGTCCCTAAAGAGCG  
CCAGGTGCGCATGTCCCTGTCCCCAAAGGACCCACAGGTACAAGGAACGA  
ATAAACAGAGACAAGGAGCACTCAGTGGGATACAACTGATGTGAGGTGCA  
GAGCCTTTGAACACAGAAGCCCCATCTCCCATAGGATTCAGGTCCCAT  
GCCCTGTGGAAACCATGGGGACAGGGAGGCTGATGGATTCCCTGCAGGA  
CTGAGTTCCTGTGTCCCTGACCCCGAAGAATCGATGGGGACAGAGAGTAG  
ATAACAGCGATAGCCCTATAAGATCCAGGTCCCGCGTCCCTGTCAGGA  
TCCGTGGGGACCGTGGGGCTGCCAGGTCCCCACGTCCCGTCCCCAAGCA  
ATCGATCCACGGGGATGAGGAACACATAAACGAGGACAACCGGCATACAA  
ACGAGATCCAACCGGCCCCGGGTGGAGCACCGGGACGCGGCAGCCCCATA  
CCGCCGTCCCCGCAGCAACGCCATCCCCGGTTCATAACTGCCAACACCCC  
ACAGCCCCCCCCGGCCCCCATTCCTGCCCCCTCATCACCTACTTGCTCTGG  
GGATTCACATTCTGCAGCATGCCGGCGGCTGCGTGCCCGGCCCTGGCTCC  
CGGCCTTCTCTCCACCTCCTCCTCCCGCCGCGCCTCCTCCGACGTCC  
CCCCCTAGTTTGGCCACCGAGCAGCGCCCGTTAAGGCAGCGGCCCTCGGCC  
GGGCATGAGCGCGGCTCCCGCCGGGCCCCGCGCGCGCCCTCACATCA  
GCGGAGAAAATGGCGGCGGGGCTGGATGGAGAGGGGGGACCTTCCTGCT  
CTCCGCTGCGCACAGAACCCGCGCGACGCCGCGGATATAGAGCCGGGAA  
AGCCGGTAGGAACCGGATAGATCCTCGGAAGGACGGTGTGAGGCGGATGG  
AAGGCGGACAGAGGGCGGATGGAGGCGGATGGTTCAGCGGGAGGGCTCCA  
TCTTGCGCTCGTAGGCCCCGAAGAGGAATCGGTGCCGGCGGCGCAGGCAG  
GGGTGCGCTACGGAGGCGGGGAGGGTCCGGTGGAGCCGTCCGGGAGCGCG  
AAGGCGGGGGCTGGGCCCGCCCGGTGGAGGATGGAGGCGGATTGGGGCCG  
CCCCCAGCGCGCGCCGAGCCCCGACCCGCACCGTCCCTTCGTCCCCACGA  
AATGGCGCGGCTCGGCCTGCCCCCGGCCGCCCTTATATAGACACCACCTG  
GGTGTGATTGGTGGTGACGCGCTGACGTGAGCCACCCGCTTGCACCC  
GCCCTGCCGCTGCCTCATTGGACGGCGGTGCTCACCGCGCAGCGCTCCTC  
TTGGCCGCCCCGCACGCCACTCACCCGCGCGCTCCCCCCCCGCCCTTCC  
GCCCGGTACTGCGACGGTCATTGGTGGTGCTGCCATTCCCGGCGCGGCG  
ATTGGCCACCACGGATCACGTGAGGGCGGCGCTGTTGGCTGTTGTTGTCG  
CGCGCGAAGGTGCAGAGGGAGGGGGAGGGCTAAGGCGGGCGTCGCCATTT  
TGTGTGGCGGCGGCCAACGGGCGCGGGCGTCCCGGGGGTTTCGGACCCTCC  
GCCCAAAGGCTCTCAGGGGGCTCAGGAGACCCCACTCAGTCCCTACGGG

FEUILLE DE REMPLACEMENT (REGLE 26)

FIGURE 10

SUIITE 48

86/110  
ElREV.txt

GCTCGTGAGGCTCTCCCAGCCGACAGCGGCCATCGGGCAGCGGAGCCGCG  
GCGGTCCGCGAGCCGCGGGCTGAGCTGTGGTGAGGTAGTGAGCTGGGTCC  
CGGGGATCCTGAAGGGTCTGAGGTAATCGCGGCCCTCAGCGCGGTCCCC  
GGGCCTTCAGTGCCACCCACGGTGGTACTGGGGCCCTCAGACCGTCCCC  
TCCCCACTGCCACGGCGATCCGGAGGGGGGGGGTCCGAGGCCGCCCCGT  
GTCTATTTCGAGGTGCTCTGTGCTCTTCCCCACGGCAATTCTGGAGG  
GCTCACAGCTACTCCAGAGCAGCCCCATAACCGTCCTGGGGGCCTCACTA  
CCACCCTACAGCAACTCAGAGCCTCCCCCACCCCCCAAAAAACAATC  
CTGGAATCCCCAAGGCCATCCCACACCAACGCTGAAGGTCTCAAAGCCCC  
CCCTCCCCCACACACACCGGTTCTAGGGTCTCAGAACCACCCACAGCA  
ATCCTGGGACGTTCCACAGCCCCTCCGTAGTAATCTTTTAGTTTCTCAAG  
GCCAACCCGTAGCACGGGGGGCCTCCGCTGCCTCCCCTCGTGGAATCCT  
GGGGGGCTCAGTGCCACCTCACAGGAATTTTCGGGTGCTCAGAACCTCTG  
CAAAGCAATCCTGGGGTCTCGAGGCCACCCACACCGATCTCAGGGTGC  
TCAATGCCACCCACAGCTGCCCCCGGGGCGGTACAATCACCCACACC  
AATCCTGAGAACTCAGTGCCACCCACAGCCAATCCCGGGGTGCCCAT  
TGCCCTCTCTAAAGCCTCCACCCCAATCCGGGGGTGTTCAATGCCACCCCA  
CAACCCCTCTCAAAGCACTCCTGGATACCCACGGACACCCCAACGCCCT  
AAAACAAATCCCAGGGCGCTCAATGGAACCTCCCGCGCAACCTCGGGCTG  
CCCCACGCCCCCTCCAATCAAGCACGACCCAGAGACCCCCCTTTCTCC  
CAACCCCTCCGGCCCCACAGCCAAAGGCTCTCAAAGACCCCCCCCCAGC  
GATCCCGGACCCGAACAGGGCTTTGGGGTCCCCCCCACGGCGCTCCCGGT  
GCCGCCCCCCCCCCGCCCCGTGACACAGCACTTTGGATCCCCGCGGGCCCT  
CCCCGCGCGCGCCCCCGCGCAACACCCAAACATGGCGCTTTTCGCCCA  
AAAGCGCCGGGCACAAAGCGGCGCCGCCATTGGTCTGCTGCCCCCGCTC  
CTCGCTTCCCATTTGGCCCCCTTCGACGGCGGAGGGGCGGAACCAGATTTGA  
TGGACAGCTCATGCTCACGTGTCTCCCCCCCCCGATTGGGTCTTTTT  
GGTTAAAAAATAAAATAAAATCATAAAAAAGGGCGAAGTTGCCCATC  
GTCACTCACCTGAGCCGCTCCACGCAGGGCCACGACCCCCAACCCGATA  
TCATCCTCGCGTCGCCCCCTTAAAGCCCCGTTTTTGGGGCAAAAAATCAA  
AAAAACATCCCAGGGCAGAAAAAGGAGCCACGCGCTACGTACGTGCAC  
CGTGATTGGCCACCCGCCGTACGTGACGGCCCCGCGCCACTCCGACGGC  
CCCATTATGAGGCCCGGGCGGCTCCGCGGGGTCTATCGCCGCTCCGGA  
GGGGGTGATGGCGCGCATGCGCAGTGCAAGGGGCATGTGGTGGGGGGAGG  
GAGGGGTGGGGCTGTGGGGATGCCCGGTGTTGCTGGGGGGCTGCTGTAGG  
GTTGCATGGCATTGCGAGGATGCAGCCATGAAGATTCACGGCATTGTAAG  
TGTGCATCTGTAGGGGCCCTGGCATTGCAAGTGTGCACCTATGGGAGTG  
CCCGGCATTGCAAGGGTGCACCTCTGGACGCGTTTTGTCATTGCAAGGGT  
GCAGCTGTGGTGGTGAATGGCATTGCAAGGGTGTATCTATGGGAGTGTAC  
AGCATTGCAAGGGCGCACCTATGGGTGTGCCTGGCATTGCATGCATGCAC  
GTGTGGGGATGTATGGCACTGGGGGGGTGCACAGTGGGGGTGCTTGGGA  
TTGCAAGGGTGAGCCTATAGCAGTGCCTGGCATTGCAGGGTTGCACGCAG  
GGATGCGTACGGCATTGCAGGGGTGCAGCTGCCGGCATTGCAGAGGGCCG  
AACCCGCCCCGTACGGTTGTGACGCGCTTCCAGCTCGGAGGGCGCATTGCA  
GTGCGGTGCATTGCAGTGCAGAGGAGCCACTGCTGCAGGGTGTACAGTGCA  
CGCCCCGAGGATGTCCCTCGGCTCCAAACCCCAAAACCCACGCTTATT  
ACCCCCAAAAACATACTTTTACACACAAGACACATTTTACCATCAAAC  
CTCACGCTTTTCCCCAAAAATCCCTCACAAAAACAAATCCGCGCCGTGA  
TGAGACACCCAGAGATCTACGGAGCCTACTCGTCCCCTGCTTCATTAAT  
TAGAGCTGCTTATTAATTGCTTGGGGTGGCTCAGCGCCTATTACAGCGT  
CGGGGCTCCCCGCTAGTTTCTTCTATCTAGTAACAAGTGACGCAAGGTAA  
CTGCGGAGCGCGGCCATTGGTTGAGCCGCACGATCATCTCCTGTCACAGC  
GCTGGTGTTCGCCGAGATCTGTTCTGCCTAGCAACCGATGACGCGTAAA  
GCCGCGAGGCACGGCCATTGGCTAAACTGGTTGCCGGTAGCAGAGGGATG  
GGGGCTGCGAGCGGGCGCGGGGCTCGTGGCAGCGCTCTGCGGGCGGGC

FIGURE 10

SUIITE 49

FEUILLE DE REMPLACEMENT (REGLE 26)

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E1REV.txt

[illegible]

FIGURE 10

SUITE 50

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ElREV.txt

GGGCTTTGGGGCACAGCCCCAGTGCTGTGCCCTCCCCATGCCCCCAACGC  
AGGCGCCTTCGTGGTGCACATGGCCAGCTCCTGCCCAGTGTGGCCAATG  
GCTCCCTGGGCAGCTTCGACCTCACCATGGCCTTCAACAAGAACCCTCTG  
CTGTGCTACGACCCCGACGTCCACCGCTTCTACCCTTGCGATTGGGGGCT  
GCTGCACACCGTTGCCACTTTGCTCGCCGCCATCCTAAATGATGATACCA  
CATGGGTGCAGCGTGCAGAGGCACGCAGGCAGGCGTGCAGTGCAGTGGCT  
GCACAGTTCTGGACACACACAGCACTGCGCAGGAGTGAGCACCCTGCAT  
GCAAGTGGAGCATTGCAAACACGGGACGTTGCATGGGGGTGTTGCATGGG  
GGTGTTCGAATGGGGTGATGCACAGCCGGTCATTGCATGAGACGCTGCAC  
GGGGATGTTGCAAAGGGAAGTGCATGGGGACATCGCACAGCAGGTTGAAT  
GGGATGTTGCATGGGGACTTTGCAAGGGAAGTTCGCACAGAGCATTGCAG  
GGGATCCACGCAAGGAATTTGCATAGGGAATGCACAGAGATGTTGCCTGG  
GAATGCTGCATGGGGTCATTGCATGAGGAAGTGCAGAGACATTGCACAA  
GGAAATGCAAAGGGGCATCACTAGGGGACATGGCATGGGGCATTCTAGGG  
AGCATTGCATGGGGACATTGCAAAGGGAATGCAAAGGGACATTGCATGGG  
GACATTGCAAACAAATTGAGTGGGAGATTGCACCGGGATGTTGCATGGGG  
ACATTGCATGGAATGTCCACCAACCACCCTGCAGGGTGACACTGGGACC  
ATCCCCAGCTCTGACCATCCCCCTTTGCTGCAGCACCACCCAGGTCCG  
CATCGTCCCCATCCCCATCTCCAACGACCCCGACACCGTCCACCTCATCT  
GCCATGTTTGGGGCTTCTACCCACCCGAGTGACCATCCAGTGGCTGCAC  
AACGGCCTCGTGGTGGCTCAGGTGACACCAAGTCTGCCCAACGGGA  
CTGGACCTACAGGACACAGGTGGCCCTGAGGGCCAGCACTGCAGCAGGGA  
GCACCTACACATGCTCAGTGTGGCACTCCAGCCTGGAGCAGCCGCTGCAG  
GAGGACTGGAGTGAGTTTGGGGATGGGGATGTGGCACCCACACCCACAG  
TCCCCACGGCTCATTGTGCCACGCTGTCCCCACAGGTCCCAATTTGTC  
CCCGCGCATGATGTTGAAGGTGGCAGTGGCGGCCATGGCGCTGACGTTGG  
GGTTGGTGGCACTCAGCGCCGGGGTTTTAGCTTCTGTGACGGCCACGG  
GGTGAGGGATGGGGATGTGGTGCTGGGGACATGTGTGACACCGAGGGTCT  
GGTGTCCAGTGTGGGGTGTACCTCCTCATTCATCATCTTCTGTGTGGCAG  
CTCCTGGCGCTGTTCCAGTCCCCGTCCTGATGCGGGTTCTCACTCCAAT  
CCTGGTCCCCAAATGATCCCCGTCCAAGTCTGGTCCCCATCCAGTCC  
TGGTCCCCATTCTGGTCTTGGTCTTGGTCTTGGTCTTGGTCTTGGTCTT  
ATCCCTGACTCTGGTCCCGGTCCCCATCCCGATGCCAGTCCAGTCTTGG  
TCCCCATCTGGTCTGCTCCTTGGTTTGGGGACCTCAATGACTGGAAGT  
CCCATGTCCCAACATGGGGACCCACAGTTTGGGGTGAGGGGCTCTCAGCC  
CCCAATAAAACCATCTGCAGCCCCAACCTCGCTCCAATTCTTCGTTCCCA  
CGTTGGGTGGGTGGGGCTCCAGTGCTCCAGTGCTCCAGCCGTCTATG  
TCCCGTAAGCGTGGGCTCCACTGCATTCTGCTCCGGAACAGATGACGCT  
ACCACGGCGCCGCCTCTGATTGGCTGCTCCGTGCCCTCTCTCCGTCCAC  
GTCCGTGAAGGGGGGATGTGGGGTGAGGGAGCTGAGGGGGCCGCCCT  
TCCCCCCCCCGTCCCCCTCCGCGATGTTGGTGCTATTGGGGCTGCTGC  
TGGGAGCGCGGGGGGACAGGTGGGGGTTTGGGGTTGGGGTGTGGGGGGT  
CTCTGCCTAATGAAACTCTGGGGGGGGGGACGTGGGGGTCTCTGCTTTA  
TGGGACTGTGTGGGCGGGCTTGAAGGGGCTCTGCTTTACGGCGCTGGGTG  
TGGGTTCTGGGAAGACTGTGCTCTATGGGATCATGGTAGGGGCTTGGGGG  
GGCTCTGCTTAATGGCACTGTGTGGAGGGACATTGGGGGTCTCAGCCTTA  
TAGGACGTTGGGGATGATTTGTGGGGGTCTCAGCCTTTGCAATATTGAGG  
ACACTCTGGGTGGTGGTCTGAGCCCTTAGGGCCCCAGGGAGGGCTTTAG  
GGTGGGCTCAGCCTTTTGGGATACTGGGGTCTTTTGGAGGGAGGGTCTC  
AATTTATGGGATGTTGCAAAGAGTTTGGAGGGGTCTCAGCTCTGAGGG  
ATATTGGGGACAATTGGGGGATCTCAGCCCTTTGGAAGTCAATGGAGGA  
TTTTGGAGTGATGCTGAGGACTCAGCCTTTTGGGTGCTGGGTATGATTT  
GGGGATGCTCAGCCTTATGGAATGGTGGGGACACTTTGTGGGGAGCTCAG  
CTCTGTGGGATATTGGGGCCACTTTGGGGGAGTCTCAACCTTTAGGACTC  
CCAGGGAGGGT

FIGURE 10

SUIITE 51

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ElREV.txt

GATGTTATGTCCCATGGGGACCTCTGGGGGCTCCAAATGGGGATGAGGT  
CGCTGCCAGCACTGCCATCTCCCCTCTGTCCCCCAATGCAGGTGCCTTC  
ATGGTGCATGTGGCCAACCTCCTGCTCACTGGCAGCCAATGGCTCTCTGCG  
GGGCTTCGACCTCACCGTGGCCTTCAACAAGAACCCTCTGGTGTGCTACG  
ACCCCGATGGCCACCTCTTCAACGCCTGCGACTGGGGGCTGCTGCACGGC  
GTGGCTGGACAGATTGCCATTGCCCTCAACAATGACAGCACCTGGGTGCA  
GCGTGCAGAGGCACGGAGACGGGCGTGCAGCAAATGGCTGCACAGTTCT  
GGGCACAGACGGCGCTGCGCAGGAGTGAGCATTGCAAATGGGGCTGTTGC  
ACGGGGCGTTGCGTGGGGATGATGTTGCATGGGGCATTGCATGGAGATGA  
TGTTGCATGGGGTGTGTCATGGGGACATTGCATGGGGCATTGCATGAAGA  
TGGTGTGTCATAGGGCGTCGCATGGGGATGTTGCATGAAGATGTGTAGCA  
ATGATGCATGGGGCATTCCATGGGGACGCTGCATGAGGGTGTGTTTAGC  
AATGATGCATGGGGTGCTGCATGGGGATGTTGCATGGAGATATTGCATGG  
GGCATTGCATGGGGTTGATCCATGCAGCGTTACATGGGGTTCTCAAGCAG  
GGGGATGTTGCATGGAAAAGTTGCATGGAAAATGCACAGAGGTGTTGCA  
AAGCATATGCATGGGGATGTTGTATGGAGGATTGGACGGTGGCTTTGAAG  
AACATTCTGCATGGGGCATTGCTTAAGGGTCCCAAGCATGGGGATGCTGC  
AAGGAAATGCTGCTGCTTGGTGGCCTTGCAGAGTGTGTTGCATGGAGTTT  
GCTTCAAGGAGATGTTGCATGGCATATCATCTGCAGTTTTGCAGAGCACA  
TTGCATTGCACATTGCACACTGCACAGAGCAGTGCATGGGCATCTCCCA  
GCGTGTGGCACAACGCTGTTGCAAAGGACATCCCACGAGGTGTTGCAGCA  
AACATGCGCAGAGCTTGCACAGAACGTGGGATATCCCATGGGGATGTGG  
CACAGAGCATTGCGTGGGGAATCCTACAGGGAAGTGAGATGGGGAAGTTG  
CACAGAGCGTTGCAAGGGGTATTGCACAGAGGGAACCTGCAGAGAATGGG  
GCAGGAACCGTCCCCATCCCCTGCTGCTCACCATCCCTGTCCCCACTCCA  
GCTCAGCCCCAGGTCCGCATCGTCCCCGCACAGACAGGGAACCCAGCGT  
GCCCATCCGCCTCACCTGCCACGTGTGGGGCTTCTACCCCCCGAGGTGA  
CCATCATCTGGCTGCACAATGGGGACATCGTGGGACCTGGAGACCACTCA  
CCCATGTTTGCCATCCCCAATGGGAACCTGGACCTACCAGACACAGGTGGC  
CCTCTCGGTGGCCCCAGAGGTGGGGGACACCTACACGTGCTCGGTGCAGC  
ATGCTAGCTTGGAGGAGCCCCTCCTGGAGGACTGGCGTGAGTTGGGATCA  
AGGGGGTGACACAGGGACAGCGGTGTCCCTGCTGTGTCAGTGTGGCTGT  
GTCCCTGCAGGTCTTGGGCTGACGCTGGAGGTGACGCTGATGGTGGCTGT  
GGCCACTGTAGTGATGGTGTGGGGCTCAGCTTGCTCTTATTGGTGTCT  
ACTGCTGGCGGGCCCAACCCCTGCCCGAGGTGGGTGCTTGAGAGGGACC  
CTATGGGGCTCCATGGACCTCTAAGGGGTCTCTGTCTGGTTCTATGGGT  
CTCTGGGTGTCTGTGAATCTTTCTTTCTCTGTGGGTCCGTCTGGGGTAT  
CTGTTGATCCCTATGGGTGCTGTGGGGCCTCTGTGGGTCTCTATGGGTC  
CTTCTGTTGGCCTCTGTGAGGTCTCTATTGTCTCTATGCATCCCTTGG  
ATCTCTATGGGGTCTCTGCGGGTCATTACGTGTCTCTATGGGATGTGACC  
ATTTTTGACAAGAACCCCACTCACCCCTCCTATTCCCCCAACAGGTTACG  
CCCCGCTTCCCAGGTCACAACTACCCTTCAGGTAACAGTGTCCCCAACTG  
TCCCTGTCCCCATTGCCATCAATGAGGGCTGAGTGACCCCATCTCTCACC  
CCATGTCCCTGCAGGCAGCATCTGATGGACACCTTCTGTACCAACTGTC  
CCTGCGTGTCCCCATCCCTGACTCTGCGCCGTGGTGCTGACATTAAAGAC  
ACTCTGCAGCCTCTGTTGGTCTCTGTGGGCTTTTGGGGTGGGGTGGTG  
TCACCGGGGAGAGGTTGGGTTGGGGTCATTGCATCCATGATGGTGATGGT  
GATTGACATTGTGCACAGGGAGATGTCCAGGCGCCTGTGGGGTCTGTGTT  
TTAGGGCCAGTTCTGCTCAGTGCCTCCGTAAGTGATCTGGATAGGTGCTC  
AGTCATCCTAATTAAGGAGGGGACAACAGTGAATGGGGAGGAGCCGATGA  
CTCAGGCTGGGAGTGGTGATCCCAGAGGTTTCCTCTGCTGTCAGTGACTC  
CGTGCTTTGCTTTGCTTTCGCTTCAACCTGAGGGAGCGCATTCTGCCTGGCG  
CCCGATGACGTCACATAAACCCCGACTGCCATTGGCGGAGAGGCGACGG  
AGGAGCCAATGGGGGCGGGGGCGGGGGGAGGAGTAGGAAAAGCTGAAG  
GAGCTGCGCTGGGTGCGGCGGACTTGCAGTGCAGCGGTGTGAGGCGATG

FIGURE 10

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ElREV.txt

GGGCCGTGCGGGGCGCTGGGCCTGGGGCTGCTGCTCGCCGCCGTGTGCGG  
 GCGGCGGCGCGGTGAGTGCGGCCGACCGGGACCCCTCCCCGCGCGTAAC  
 CCCACCCCGGGGCTGTGCGCGTGGGATCCTCAGACCCCCACCGCGGGCTC  
 ACGGCCTCGCTGCGCTCCGCCCCCGCAGAGCTCCATTCCCTGCGGTACGT  
 CCATACGGCGATGACGGATCCCGGCCCGGGCTGCCGTGGTTCTGTGGACG  
 TGGGGTACGTGGACGGGGAACCTTTCGTGCACTACAACAGCACCGCGCGG  
 AGGTACGTGCCCCGCACCGAGTGGATGGCGGCCAACACGGACCAGCAGTA  
 CTGGGATGGACAGACGCAGATCGGACAGGGCAATGAGCGGAGTGTGGAAG  
 TGAGCTTGAACACACTGCAGGAACGATAACAACAGACCGGCGGTGAGCAC  
 GCGCGGGGCGCGGCTCCGTGGGTGTGGGATGGGCTCCATGGCGCAGTGC  
 CGCCACACCCCCAGGCCTGGCCCTGCGCGCGGCACCGTCCCGGGGCT  
 GCGCGTCACAGCCCCACCGCGCTCGGGGTGCCGCGTCCCGGGGGACCCC  
 AACCCATCCCCGCTGCAGTGGGAGCCCCGAGCCGGAGGGGCCCCCTCACC  
 CCCTGCGCGGCTGTGTTTCAGGGTCTCACACGGTGCAGCTGATGTACGGC  
 TGTGACATCCTCGAGGATGGCACCATCCGGGGGTATCATCAGACAGCCTA  
 CGATGGGAGAGACTTCATTGCCTTCGACAAAGGCACGATGACGTTCACTG  
 CGGCAGTTCAGAGGCAGTTCACCAAGAGGAAATGGGAGGAAGGAGGT  
 GTTGCTGAGAGGTGGAAGAGTTACCTGGAGGAAACCTGCGTGGAGGGGCT  
 GCGGAGATATGTGGAATACGGGAAGGCTGAGCTGGGCAGGAGAGGTGAGC  
 GGGTCCGGGTGSGGGGGGGGGGGGGGCGGACGCAGTGTGGGGCTGGACGT  
 GGGGCGGGGGCTCATCGTGGGAGCTCAGCCCGGCCCTCACTGCCGCCCA  
 CCCACAGAGCGGCCTGAGGTGCGAGTGTGGGGGAAGGAGGCTGACGGGAT  
 CCTGACCTTGTCTGCGCGCTCACGGCTTCTACCCGCGGCCCATCGCCG  
 TCAGCTGGCTGAAGGACGGCGCGGTGCGGGGCCAGGACGCCAGTCGGGG  
 GGCATCGTGCCCAACGGCGACGGCACCTACCACACCTGGGTACCATCGA  
 TGCGCAGCCGGGGGACGGGGACAAGTACCAGTGCCGCGTGGAGCACGCCA  
 GCCTGCCCCAGCCCGGCCTCTACTCGTGGGGTGAGTGAGGGGATGTGGGG  
 CTGGGGGGCTGCGGGCTGCCCCCTTCCCCCTGCTGATGGCCCCGCTCTCCCC  
 CAGAGCCGCCACAGCCCAACCTGGTGCCCATCGTGGCGGGGGTGGCCGTC  
 GCCATTGTGGCCATCGCCATCGTGGTTGGTGTGGATTTCATCATCTACAG  
 ACGCCACGCAGGTAAAAGCAGAGGGGTGCAGGCGGGCAGTGGGGGCTGTA  
 GGAGGATCTGGGTCCCCCTTGGGAGCCCCCAACCTGGCTGTGATGTGAAC  
 CTGTGATGAAGCATCTCTGTCTGCAGGGAAGAAGGGGAAGGGCTACAA  
 CATCGCGCCCGGTGAGTGATGAGGGCAGCGCTGTCCCCACCTCTGCCCA  
 GTGCCAGGGTGGTCCTGGGGTCCCTGCTTTCTCCCAAGGTACCATTCCT  
 GGTGCTTGGGGCTGCTCCATGCCCATAGGGAGCACAGGGCTGGATCTCA  
 CAGCTGTTCCCTTATAGACAGGGAAGGTGGATCCAGCAGCTCGAGCA  
 CAGGTGCGGTGTGGGGCTGTGGGTGGGAGGGGTCCGTGTGCTCTCTGTG  
 GTACTGCCCAGGGCTGGGCTATGCTGGGGCTCTGCGGGGAGACCCCCGGA  
 GCAGAGGGTTGGGATGTGAACCTGGCCCCGTGGGACATCATCCCTTCTCA  
 TCCCCACAGGGAGCAACCCCGCCATCTGAGTGCTGTGCTTCAGCCTGCAA  
 GGAGCCAACAGTCCACACCAGCATTGGGGTGGTGATGGACACAGCCCC  
 ATCCTCCTGACCTCTCACATCTCATCTGCTTCCCTATGCTGACTGTTATG  
 CTTTGCTGCACTGCTTCTGTGAAATAAAATGATGGGCCATTCTGTGCT  
 CAGCTTGCCTGCATTCTGCACTGTGCTGTGGTTGGGGATGGGGTGGGTGA  
 GAGGACCGTGTCCAGTTTGGCTGCTCAGGGTGCAGATGTGGCCCTGTGC  
 TGAGTACCCACAGCCCTCCCCCCTATCTGCCTGCTGCTCACTCCCCCTT  
 CTGTACCCCATCCCTTCTCACCTCTCCTCTGTGACCCCATGCTGGTGGT  
 TGCTTGCTCCCTGTCTTGGCAGAACTCTCATTTTCCCAATGGCATCCCTG  
 GGTGTTGGGATGTGGTCTCCTTGGTCTCCCCCAGCAGTCACTGCACAT  
 ATCCACCCCACTTCCCCCAGGTTGTTGTCCACAGCACTCCTATTTC  
 CTCTCCCCCCCCCCCCCCCCCGCCATCCAGCTGCCTCTGCAATC  
 CTCACCTTGCCACACACAACCTTTCGCGCACTCCACCTCCCTCATCCGC  
 CCTTCCCCCAGCTCTCCTGTCCCTGCTGGCCCCCTCCCCCCCCCATT  
 GTACCCTA

 FIGURE 10  
 SUITE 53

REPUBLIQUE DE REMPLACEMENT (PAGE 28)

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E1REV.txt

CCTGGTTTATTTCCCCCGATTGTTGTTGTTGGGGGCTCCGCTCTTCAC  
CCTGGGGGGAAGGGGCTCTGGGGGTCCCTCATTCTCCCTGCACTTCTTAC  
AGCACCGGACTCCCGCGCTGAGATCCCATCACACCCGGGTACAAACATG  
CGGCTTTATTTCCAGTTCTGTGTCCACCCCCGGCCCTGGTGGCACTCAG  
TGGCACCGCAGTCCATGCAGTGGCCGTTGTGTGTGTGTACAGCAGCGGTAC  
CGCAGCGCGCCCGGCTCGGCATCCATGTGCCACGGCACAGCTCTTGTGG  
TCCCTTGTGCTGCCCGGTGTCCCCACCTCCACCCTCAGTGTCCCCAAC  
GCGCAGTGTCCCCATCCCACATCTCACCACCCCTGCCCTCCCCATCCAT  
AACTCCCGCTATCCCTCTGTCCCCCTCCCCCGGTGCTCCCTGTTGTCCCC  
AGTCCCGCAGAAGGCTGCCGGGGCGCAGCACCTCGTGGGGGGGTCCCTCC  
TGCCGCACCTCTCCCCCTCCAGCACCAACCCGCTCTGCCCGCGCCGC  
CAGGGCTGCCCGCCCCGTACCATCAGCACTGCACGCCCCGACCCTTTGG  
CTGCGAGGATCTCCTGCTCCACCTGTGGGAGGAGAAACGGTCAGGGGAT  
GTCTCAGCCACTGCCAGGGACCGAGGGACACAGGAGTGGAGATAAGGG  
GACACCAAGACAGGGGACCATGGGGACCTAGGCGTGCAATCTGAGGGAAC  
ACAGGGCTCAGGGGGATGTGGGGACACGGGGACGTGGGGGACATCCCACC  
TGCTGCTGGCTCTCAGTGTCCAGGGCGCTGGTGTGCTCGTCGAGTATGAG  
GATGCGGGGGTCCCGCAGCAGCGCACGGGCAATGGCCACCGCCTGCCGCT  
GCCCCCGGAGAGCTGTCTCCCAACTCGCCACCTCTGCGGGGACAGCG  
GGGTGAGGCTGGGAGGGGACCATGGAGGGGACCCGGAACAGAGAGGGGAC  
AGCTTACCTGTGTGCTAGCCTTGGGGCAGGCGAGTGATGAAGTCGTGAGC  
ACCCACCTGGCGGGCGGCCGCTGTACCTGCGCCCGGCTGCAGCCCCCA  
ACCCATAGGAGATGTTGGCGTGGAGTGAGCGGGCAAAGAGCAGCGGCTCC  
TGGGGGACGACGGCCACCTGCAGTGGGGGGGACAGCTGGGGACATGGGCA  
CGTGGCAGTGGAGGCGGTGGGGATGGCTGGGGATGTGTGAGGACATCTG  
GGGACATGGTGGGATGGTTGGGGACACAAGGATGGTTGGGGACTTGGCCG  
GGACACTGCAGGGGACACAGTGGTGATATGGCAGAGACATCAGGGTGTGT  
GGTGATGGCTGGGGACCCAGATATCTGGTGACTCAATGAGGATGGCTGCT  
GATATGCAAGAACACAGGGGGACAACCAGGAGCCATGGGGACATGTGGCT  
GCTCACCTGGCGGCACAGGTAGGAGTGCTGGTAGGCGGGGAGGGGGTGGC  
CATCCAGCAGCAGGCGTCCGGCCGTGGGCTGGTGCAGGCGGGACACGAGG  
GCCACCAGAGTGCTCTTCCCTGCGCCCGGGGGTCCCAGCAGTGCCAGCAC  
CTCCCCGGGGCGCAGCTCCAGTGATACGCCCTGGGGACACGGATGTACA  
CCCATGGTGTCCCTGTACCCACACCTCCATAGTCCCACGGCCTTCTGTCT  
GTGTCTTCTGTCCCTGTCCCCCGGACCTTTGTTTTGTTCCACACC  
TTTGGTACCACATCTACATTCCCATGCCCTCCCCACCATGTCTCTGTGTC  
ACTCATCATGTCCAGTGCCACAAACCCACCATGTGCCATGTCCCCGCGC  
CCTCAATACCATGATCTCATGTCCCTCTCCAGTGTCCCCATACACCCCC  
TCCATGTATCTCCTTGTTCATATCCTCACACCCTGTCCATCACATCCAT  
GTCCCTGAATCACCCCACTGTGCTCCACACCTGTACGCTGTCCCACCA  
CACCCCGTGTCCCTGGCTGTGTCTCTGTGCCACCTTGAGGACGGGTT  
CCTGGCGCCAGGGTAGGAGAACCAGACATCCTCCAGCTGAAGGTGGCCC  
TGCAGGTCAGCGGGTGCCATTGTCCCTGAGGGTGCGACCTGTGGCTCCCG  
GTCCAGGAACCAAGATCTTCTCGAAGAGCCACAGCCTTCATCAGTG  
TGGGGAAGTAGTCGAGCAGGACCTGGGGACAGCGTAGTGACGTGGCCAGG  
AGGGCAAGGGCATGTGGCATGGTGACATGGGGACGCAGAGGACACAGTGG  
GATTGGCATAGGGACAGGACGGGGTAGGTATGGGGACAGAGGAGGTGACA  
CAGGGATGTGGCAGGGGTACAGAGGGTTAGACGTGGGGACACAGGGACA  
TGGATGGGCATGGGGACACACTGCGATTGGCCTGGAGACACAGCAGGGAG  
GATGTAGGAACACAGGGACACTGTGACACACTGTGACTGTGGCAGGGAGA  
CATGGGGACATGCGGATATGGGCATCCTCTCAGGCTCACCTCCAGGACAT  
CAGTGAACGTATCTGGTAGAGGAGGAAGGTGACGAGGTCCCCAGTGCTG  
ACGGTCCCCGCGGCCACAGCTGCCCCCATAGTAGAGGATCCCCATCTT  
CAGGGCCAGGGCTGAGAACTGAGGATGCCATGAGGTACAGGGGACACC  
TCCCCCTGGGACTCTGAGTCCGACACCTCTGAGCTCTGCTGTTCT

FIGURE 10

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E1REV.txt

GTCAATGTCCCCCTGTCCCAGTGTCCCACAGCTGTGCTATCTCTGTGCT  
ATGTCCCCTCATGCCATCATGTTCCCAGTGTCTGGAGCCCCCATGCCGC  
CCCATTCCCACGTCACTGCATCCTCCTGCCCCAGAGCCCCTGAACTGTTG  
TGCTGTACATCCTGATGTCCCCATGCCATCAAATCTATGTCCCACAGT  
CCCCATGCCATCATATTCCCATGACCTGCCATCTCCACACCATTATGGCC  
TCCAGCCCCTTGGCATTCTGTCCCCATCTCCTGACATCTCAATTACATCA  
CGTCTCCACATCTCCCAGCCCTATCCCACCATGTCCCCATGCCCCCAGT  
CCTATCCTATCATGTCCCCACATCCCCAGCCCCATCCCATCACGTCCC  
ATGCTATTGAGCCACCCCATCCCATACACCACTGGTCCAGAGAGAGGCAG  
TGTAAGAGGGCCACATCCTTCTTCTCCAGGCGGTGGCTCTGCTGCAGGCGC  
TGCCGGTAGTGTGCAGCCGCCCATCCTCATTGGCAAAGCTTCGCACAGT  
GGCCATGGCCTGGAAGGTCTCCACTGCCACCTCGCTGGCCCGGGCCTGCG  
CCTTCTGCATCTGTGGTGCCAGGGCCTGGGGACAGCAGTGTATTGCAGG  
GCGGGTGGGAAGGGAATGGGGCTGGGGAGGGGACAGTGCATGTATGGAG  
GGAACAAAGAACACGTGGAGGGGATGGAGGGGACATAAAGGGGACGGTGG  
GCATGTGGAGGTGACAGTGGGGGCATGCAGAGAACAGAACCCATGTGGAA  
GGGATAATGGTCACACATAGGGAATAATGAGCACATGGCACGGATGGTGG  
ACGCATGGAAGGGGCATGGGGCACGTGGAGGGGACAGCGGTACACAGAGG  
GGACAACAGCAGGAGGATGGTGGGTACATGGAGGGGACAGTGGGCACATG  
GATAGGGCAATGAGTACATGGTGGTGACACTGGGCACATGGAGGGGACCA  
GAGGCACATGGAGGGGACCAAAGGCACATGGAGGTGCAGACAGCAGCCCA  
TACCTGCCGGAAGTGGCCACAGCCCTGGGCAGTGCCAGCAGCAGTGGCA  
GCCCAGCGCGGTGAGCAGCGCCATGCGCGGGGACAGCCAGGCCATGGTG  
GCGAAGAGGCAGAGGCCACGTGCCAGATACCACAGCAGGAGGCTCAGCGC  
CTCACCAGCGCCTCGCGCACGTCTCCGCATCCCGCGTCACCCGCATGG  
CCACATCCCCTGCCGGGTGACAGCGCCGTGAGTGCACCCCTGTCCCTTA  
TCCCCGTGTCCCCTCCCAGCCCGGTGCCCTCACCGGCCCGCTCGGCGCG  
CAGCTCGGTGATGCTCTGCCCGCAGGACGGCGGCGAAGACGGCGCGCTGGA  
GGCGGCTCTGCGTGCGGCTCAGTGTCCCACGAAGGTACATCACACACC  
AGCTCAGTGACAGCGCTGTGACGGCAGTGGGGTGTAGGGGGTCCCGCGC  
TGCCCCCTGCCCGCACCGCGTCCCCCTATGCCAGTACCTGCTGAGGCCC  
AGCAGCACCATGGGCAGGATGGCTGCCAGTCATCCTCGCGGGCCACCCA  
GTCGCTGGCTCGCCCCATGTAGTGGGCACGGCCATCTCGCCTGTACCA  
CAGCAGGGTACAGGGCATGGGGGACCCCCCGAGGAATGGTGGCCAGGAG  
TTCTGTGCTGCACCCCCAGTTTGGTGTGCACCCCCAAAGCTCAGAGGTG  
AACCTCCGAAGCTCATTGTTGCCCTCCAGTTGGCTGCAGCCCCCACCCC  
ACCGCAAACCCATCTTATTCCCATTCAATCACCGCCCCCACCCCAACCC  
GACCCCAATTCTATCTCCATCCCCATCCCTACCCACCCCAACCCCATTT  
CTATTCTATCCCATTTCTACCCACCCCAATCCAACCCAGTCCCATCT  
CCATCCACACTCCATCACATTCCCATTCCCACCTGTCTTCAATCCCCAT  
TCCATCTCCATCCCAAACCTCAGCCCCAGTTCCTATTCTCTCCCCATCCC  
CACCCCATCCTACCCAGTCCCAATCCCAGTTCCAAACCCACATCATTACC  
ATTCCATCCCAACCCATTCCCAGTGCCAGCCTATACCCATCCTTACCC  
CCACCCCAATCCCCATCCCATTCCCCATCCCATTCCACGGCTACTTCCAT  
CCCCAATCCCATTCCATCCGGTTCCCAATCCCATCCCCATCCCTACCCTT  
ATCCCCAGCCCCACCACAACCCCATCCTCATTCAAATCCCAACCCCACTC  
CGATCCCCTCCCCTCCCCCGCCCCGTACCCAGCGCCGAAGCCGCCAT  
CAGACCCATCACCGCGGCGCAGCGCGGCGCTCCGGGCTCAGCGAGAGGA  
GGAGGCGGCGACCCGCGCCCATCTTCCCCATCGCGGCCCCGATCCCCCTC  
CGGCCCCGATCCCAATGCCCGGCAGCGGCGGAGCTTCTCGGAAACGAGAG  
CGTCTCTCATTGGCTGAGGCGGTGCAGCAGCGACGCTGCTCATTGGTGA  
GATGGTTTCGCGTCATCAGTTGCCAGGCAGATCGGAACACTGCAGTTTG  
AGAGGGGCGGGTGATTGAAAGTGAAGTAACGGCGGAGCGGGAAGGAGAT  
GGAGAGCGGCGGCGGTGAGGGGCTGGAGGGGGCTGGAGGGGGATGGACTG  
GTAGGGGCTGGTGGGCTCTG

FIGURE 10

SUIITE 55

FEUILLE DE REMPLACEMENT (REGLE 26)

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ElREV.txt

GTGGGGACTGTGAGGGGGCTGGAGGGATCTGATGGGGACTGGAGGGGTTT  
GGTGATCGCTGTTGTGTGCTCCAGGCTGGGCTGTGGGGAGCCGGACTGGA  
AGTGGGGGGCCGTTCTAAAAGCACTGCTGTGTGTTCCAGGTGCTGAGGGGA  
GCTGAGGACCTGCACCAGGAGCACCCCGGGGAGCCACCTGGTCCAGCTG  
TGCACCAGAAGCTCTGGGGATCCCCACCCACAGCCATGGCGATGCCGCC  
CTACATTCTGCGCCTGTATGCACGCTGCTCCTGGCCGACCTGGCCCTCA  
TGTTGGCCCTGGCCCACTTCTTCCCAGCACTGGCCCATTTGGGCTGGGTG  
GGCTCCTGGCTGGAGGCCGGGCTGCGCCTCCTGGTGTGGGGGGGGCCGG  
GCAGCTGCTGGCCCCCAGGGGACCCCGTGGGGCTGCAGTGTGCTGAGCC  
TGGGCCCCGCCATCTTCTGACCCTACGGGGCTATGTAGGTCTGCCTGGA  
GCTGCCCCGGTGTGCTGGCCATGGCAACGCCGTCTGGCTGGTGTGAC  
CCACGGGACAGCTGTGGTGGCATTGCTCACCTGGAGCCTCCTGGTCCCCA  
CTGTGGCCACTGGGGCAAAGGAGGCAGAGGCCTGGGTGCCCTGAGGCGG  
CTGCTGGCCCTCGCCTGGCCGAGTGGCCCTTCTTGGCTGTGCCTTCT  
CTTCTCGCATTGGCTGCACCTGGGTGAGACCTCAGTGCCCTACTGCACCG  
GGAGGGCTCTGGATGTCTCCGCCAGGGGGACGGCCTCGCCGCCTTACC  
GCTGCTGTGCGCCTCATGTGCCTGGCCTCTGCCAGCAGGTAGGGACCCCA  
CATCCCTCCACAAAACCCCATCCACCTCTGGTGGTGTCTGGTGGGTTG  
GGGGTCTCTGTCCATATCTGGGGGTCTATCTGATGGGTTCTGGGCACTCCA  
CTGACCCTTTGTGATTGTCTGAAGGGTTCTGGGCTCTCCATTGACCCCTG  
ATGGGTTTTTGGAGTCGCCCCCCCCAATTCTTCCCAGCTCGCTGTTTGCCG  
GCTGCCGCGGTGGCCTCTTACCTTCATCAGGTTCCGCTTCATCTTGCGC  
ACCCGCGACCACTCTTCTCCAGCCTGGTGTACCGGGACCTCGCCTTCTT  
CCAGAAAGACCACAGCAGGTACAGACTGGGGGCACTTTTGTCCCTGTCCCC  
ACACCATACCCCACTCACCCTACTCAACTCCACAGCTGAGTTGGCCTC  
CCGGCTGACCACCGATGTGACGCTGGCAAGCAACGTGTTGGCACTCAATA  
TCAACGTCTATGCTGAGGAACCTGGGGCAGGTGCTGGGGCTCTGCGCCTTC  
ATGCTGGGGCTGTCCCCGCGCCTGACAATGCTGGCACTGCTTGAAGTGCC  
GCTCGCCGTACCCGCACGGAAGTCTATGACACCCGGCACCAGGTGATAG  
CAGGGATGGGATGGTAGGGTTGGGGTGACAGGGATGGAGGCAATGGCAAT  
GGGATGGGAACAGTGGGAGTGGGGATAGTGAGGTGGGGATTGTGGGGTCA  
GGGTGGCAGGGATGAGGGCAGCTGCAATGGGATGGGAACAGTGGGAATGG  
GGAGAGCAGGATGGGGATCATGGGTCCAACACAGCAAGGATGAGAGGATG  
GAGAAGAGTGGAGCAGGAATGGAAGTGGGATGGCGAGTACTTGGCCATCC  
CATGGGTGCTGACACCCACTGTCCCCCCAGATGCTGCAGCGGGCCGTGC  
TGGATGCAGACCGGACACCGGAGCGGAGTGCAGGAGTCCATCTCTTCC  
ATTGAGATGGTACGGGTCTTCAATGGCGAGGAGGAGGAGGAGCACCCTA  
CAGCCAGGTGCTGGACAGGACCCTACGGCTGCGGGACCAGCGGGACACAG  
AGAGGGCCATTTTTCTCTCATCCAGCGGGTGAGGCTGACACGAGGGGAC  
ACCCTGGTGTCTGGGTGGGATCGGGACATCCCCGCTGAGCCCCATCCCCA  
CAGGTGCTGCAGTTGGCCGTGCAGGCACTGGTGTGTACTGTGGGCACCA  
GCAGCTCCACGAGGGGACCCTCACTGCCGGCGGCCCTCGTTGCCTTCATCC  
TCTACCAGACTAAAGCTGGCAGCTGCGTGCAGGTGAGGTGAGGCAGTGCG  
TCCTCTGCCACCGGATCCCCATGACTGTGGCCACATCCCCGTGTCCCCAC  
CCTGGGTGCTGTGCCTGGGGGTACATCCCCATGTCCCTATCCTGGGTGC  
TGTGCCATGCAGGCACTGGCGTACTCCTATGGTGACCTTCTGAGCAATGC  
AGCGGCCGCTGCAAGGTCTTTGATTACCTGAACTGGGAGCGAGCTGTGG  
GTGCTGGTGGCACCTACGTGCCACCAGACTGCGAGGGCCACGTCACCTTC  
CATCGGGTGTCTTTCGCTATCCCACTCGCCCTGAGCGCCTCGTCTGCA  
AGATGTACCTTCGAGCTGCGCCCCGGTGAGGTGACGGCGTTGGCGGGGC  
TGAATGGCAGCGGGAAGAGCACCTGCGTGGCACTGCTGGAGAGATTCTAT  
GAACCTGGGGCCGGGGAAGTGTGCTGGACGGGGTGGCGCTGCGGGACTA  
CGAGCACCGCTACCTGCACCGCCAGGTGAGGGGGTGGGGGGAGATGTGGC  
TGCACTGAGCAGTGTGGGGCTGAGCCTCTGCCCTGGGGCAGGTGGCACT  
GGTGGGGCAGGAACCCGTGCTCTTCTGGCTCCATTGGGGATAACATTG

FIGURE 10

SUITE 56



TTATTTTACAGGAAGCAGTGCAGGCAAAGCATAACAGTCAGCATAGGAAG  
CAGAATGAGATGTGAGAGGTCAAGAGGATGGGGCTGTGCCCATCACTGAC  
CCCAAATGCTGGTGTGGACTGTTGGCTCCTTGCAGGCTGAAGCACAGCAC  
TCAGATGGCGGGGTTGCTCCCTGTGGGGATGAGAAGGGATGATGTCCCAC  
GGGGCCAGGTTACATCCCAACCTCTGCTCCGGGGGTCTCCCCGCAGAG  
CCCCAGCATAGCCCAGCCCTGGGCAGTACCACAGAGAGCACACGGACCCC  
TCCCAACCCACAGCCCCACACCGCACCTGTGCTCGAGCTGCTGGATCCAC  
CTTCCCTGTCTATAAGGGAGGAACAGCTGTGAGATCCAGCCCTGTGCTCC  
CTATGGGGCGTGGAGCAGCCCCAAGCACCAGGAATGGGTACCCTGGGAGA  
AAGTGCAGACCCCAGGACCGCCCTGGCACTGGGCAGAGGTGGGGACAGC  
GCTGCCCTCATCACTCACCGGGCGCATGTTGTAGCCCTTCCCCTTCTTC  
CCTGCAGACAGAGAGATGCTTACAGCACAGGTTACATCACAGCCAGGCTG  
AGGGCTCCCAAGGGGGACCCAGATCCCCCACTGCCCCGCTGCACCCCTC  
TGCTTTTACCTGCATGGCGTCTGTAGATGATGAATCCAACACCAACCATG  
ATGGCAATGGCCACAATGGCGACGGCCACCCCCGCCACGATGGGCACCAG  
GTTGGGCTGTGGCGGCTCTGGGGGAGAGCGGGGCCATCAGCAGGGGAAGG  
GGCAGCCCCGAGCCCCCAGCCCCACATCCCCCTCACTCACCCACAGTA  
GAGGCCGGGCTGGGGCAGGCTGGCGTGCTCCACGCGGCACTGGTACTTGT  
CCCCGTCCCCGGCTGCGCATCGATGGTGACCCAGGTGTGGTAGGTGCCG  
TCGCCGTTGGGCACGATGCCCCCGAGTGGGCGTCCTGGCCCCGCACCGC  
GCCGTCCTTCAGCCAGCTGACAACGATGGGGCCGCGGTAGAAGCCGTGAG  
CGCGGCAGGACAAGGTACAGGATCCCCGTGCGCCTCCTTCCCCACACTCGC  
ACCTCGGGCCGCTCTGCGGGCGGGCGGCAGTGAGGGCCGGGCTGAGCTCC  
CCAGCTGAGCCCCCGCCCCACGTCCAGCCCCACACTGCAGCCGCTCCCC  
CCCCACCCCGCTCACCTCTCCTGCCAGCTCAGCCTTCCCGTATTCCAC  
GTATCTCCGCAGCCACTCCACGCAGGTTTCTCCTCAGGTAATTCTTCCACC  
TCTCAGGTTCACTCTCTTCTCCTCCATTTCTCCTTGGTGGGAAGTGCCTCT  
GGAAGTGGCCGAGTGAACGTCATCGTGCCCTTGTGCGAAGGCAGTGAAGTC  
TCTCCCATCGTAGGCCATCTGATAATACCCCCGGATGGGGCCGCCCTCGA  
GGATGTACAGCCGTACATCCACTGCACCGTGTGAGACCCTGAAACACAG  
CCGGGCAGGGGGTGAGGGGCCCTCCGGCTCCGGGGCTCCCACTGCAGCG  
GGGATGGGTTGGGGTCCCCCGGGGACGCGGCCAGCCCCGAGCGCGGTGGGG  
TGTACGGGCAGCCCCGGGACGGTGCCGCGGGCAGGGCCAGGCCTGGGG  
GGTGTGGGCGGCACTGCGCCATGGAGCCCATCCACACCCACGGAGCCGC  
GGCCCCGGCCGTGCTCACCGCCGGTCTGGTTGTAGCGCCGCTGCAGTATG  
CCCAGGTTCTCGCGGTCAATCTGCTCATTGCCCTGTCCGATCTGCGTCTG  
TCCATCCCAGTACTGCTGGTCCGCCTTGGCCGCTATCCACTCGGTGCGGG  
GCACGTACCTCCGCGCGGTGCTGTTGTAGTGCACGAAGAGTTCCCCGTCC  
ACGTACCCACAGTCACGAACCACGGCTGCCCGGGGCCGGGATCCGTCAT  
CGCCGTTTGGATGTACCGCAGGGTATGGAGCTCTGCGGGGACGGAGCACA  
GCGGGGCCGTGAGCCGCGGGTGTGGGTCTGAGGATCCACGGACACAGCC  
CCGGGGTGGGGTTACGGGCGGGGAGGGGTCCCGGTCCGGCCGCACTCACC  
GGCCGCCGCCCGCACACGGCGGCGAGCAGAGCCCCAGGCCACGCGCCC  
CGCACGGCCCCATCGCCTCGCACCGCTGCACTCTCAAGTCCGCCGCACCC  
AGCGCAGCTCCTTACGCTTTTCTACTCCTCCGCCCGCCCCGCGCCCCC  
ATTGGCTCCTCCGTGCGCTCTCCGCCAATGGTAGTTGGAGTTTTATGTGA  
CGTCATCGGGCGCCAGGCAGAATGCGCTCCCTCAGGTTGTGAAGCGAAAG  
CGAAAGCGCGGAGCGGGGGAGGGGATGGGCGCGGTGTGGGAACCCCCGCG  
CCTTCGAGCACGGGGGGGACCCGGGCTGTGTTGCGACGGGGCCGCGTCC  
TTACCCCGGGGGAGGGGGCCGAGGGTCTCTGCCGGGAGGACGGGGGCCGT  
GAGAAGAGGAGGAGTCATTCTCCATTCCAGTCAAGGAAGTGTGGGGGG  
GGGGTCACATCCATAGGGTTAGAGGCTCCGTGTCCGGGGGGAGGGGGTG  
GTGACAGTGGTGTCCCCAGGGCTTCTTTGGGATCAGTGCCATTTCCTCC  
ACAGCGCCGCCCCACACCGCTTCCCCACATCCACGTGGTCCATCTGAGT  
CGATGCCCTCAGGGTCTGCAGGTGGACCCCAATGTCCACCCCCCAAGTTA

FEUILLE DE REMPLACEMENT (REGLE 26)

FIGURE 10

SUIITE 58

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E1REV.txt

ATGATTGACCCCAACCCGCTGTCCCTGCGCCACTGCTCCCATCTGCCCC  
ACACTGCCGGAGCCATGGGGCCTCACTGGGCCTTCAGCCTCTTCCTCCTC  
CTCTTCCTCACTCCCTTAATGAGGGCCAGCTCCCAGGACCCTGAGTATGG  
GGCTATGGGGTGTGTTGTGGGGTAGCTATGGGACTATGAATGTTCTGCACT  
GCCTATGAGGGACTATGGGGCACTGGTGGGGCTGGGGGCTGCTATAGGAT  
TGGGGTGTGATGGAGTCTGGGGGGACTAAGGGAGATTTCTGTGTGGTTGG  
GTGGGGTTATGGGGCCAGAGCTGGGGGGATTCTATGGACCTAAGGGGTG  
TCTGGATGCTTATGGGATCTGGGAGGGCTTATGGAGCAGTTATGGGGCTG  
GTGGCTCAAGCAGTGTTCCTCAGGTTGGTGTGCTGGTGGCCCCCGGCGCG  
TGGCCTTGGGGACCCCATGGGGCTGTTGCTGGCAGCTGTGGGGCCGGTG  
ACGGGACGGTGACTGCATGGGCTGAGGGGGACCGTGGGGCTGGGCCCTG  
CACCCTCCCAGTCCCATTGCCCCTCACACCCACAACAACCTTCAACCAGC  
TCCTACAAATTGAGGTATGGGGACACCGGGGGATATGGGGACACTGGGGG  
ATGTCCTCTGGGGTGAGGGGGTTGGGGACACCCCTGTGGCACACAGGGAT  
GTGTGCACCCTTGGGTCCCCCTCCTGCCATGTCACCCATGTCACCTCACAT  
CTCCTTCCCCAGAGTTCCCCCATGTCCCCATAACCCAAACACCTCCTGC  
TGTGTTCCCATGTCCCTTATAGGTACCCCAAGTGCAGGCAGAGCGCTGTG  
GGGCGCTGTGGGGTGGGGGTTGCTCCTGGAGGGCCACAGCTCCCATCTG  
CCCCCCCCCAGTACCAGGAGTCTGAGTGTGGCCCTGGGGGGGCGCGGGG  
TCACCTCATTGTGCAGACAGACAAACCTCTCTACGCCCCCGACAGACTG  
GTGAGTGTCTCCACGTCCACCCTAAAGCCATCCCTCATCTGCCACAGTTC  
TCCCCCAGTGGCCCAAATGCTCCAATTCCCCTAAATCAACCCCAAAT  
TTCACCCCTACATTACCCATTTACCCCAAATTCACCCCCAGCACACCCCA  
AATACCCCTGGTCACCCAAAGTCCCCCAAATCCCCTTCAAATTCCTAAA  
TCCATAACCCCATCTGTCCCCATGTGTCCCTTTGTCCCCAGTGCCTTTC  
CGGGTCTTCTCCATGGACCCCGACCTACAGCCGAACCCCGAACCTGTCTC  
GGTCACCATCACGGTATGGGCCCTATAGGGCTGGGGCTGTGGGTGACCCT  
GTGGGGTTTGGGTGACCCTACAAGGCTGTGTACCCCATGTACCCCAAGA  
ACCCGTTGGGTGCACGAGTGCAGGAGGTGCAGCGGGTGGCCCTGGACACG  
GTGCTGAGCGACAGCTGGTGTGCTGACATCGCCCTGTGAGTGGGGCT  
ATAGGGGGCTACAGAGGGCTGTGGGGTGCGACAGGGGGCTATGGGGACTG  
GGGACTATGGGGATTTGGGGCTACAGGGGCTGCAGGCGGGCTAGAGTAGT  
GGGGGGGATTATAGGGTTACTGGGGCATTACAGTGGCCATAGAAGCTATA  
GAGGGCTGTGGAGAATAAGGATAACCTTAGGGGCCATAGGGGTCTACAG  
GGGTTATAGGTGAGCATGGGGAAACATAAGGGCCATAGCGACTCCGGAGG  
GCTGTAGCACACCATAGGGGCCATAAGGGCCCTGGAGGGCTCTAGAGGAC  
CACAGAGGTGTATGGGAGGGGCTATAGGGGACTATAGGGTATAT

FIGURE 10

SUIITE 59

97/110

E52FOR.txt

ACATGGGAACACATGAGGACAGGGAGAACTGCAGGGACACAGGGACACT  
TGGGGGATAGGGGGATGGTAGTGATGCATGGGGGGGGGCACATGGGGATG  
TGTTGGGGCACACTGGGATGTGTGGGGATATGGGGACACATGGGGAATAT  
GGGGATGAGTGGGGACATATGGTTATTATAGGGATGTATGGAGACATTGG  
GACACATGCAGAGGAGGGGACAAATGGGGACACACTGGGGGACAGATAGG  
GACATGGGGACACCCAGGGAGGGACACCCCAAGTCCCCCTTACCGGCGG  
CAGTGATGGTTCCTTCTGTGCCCATCCCCCCTGCAGCAGCGCAGTGACA  
CCGTACTGCGGGGTCCCCACCGCCGCCACCCACCACTGCCCCCGCGGT  
TGGGGGGCTGCGGGCGTCGGGGTGCAGAGGGCGGCTCCATGGGTCAGAGC  
CGGTCTGGGGGTTCTGTTGGGTTTCAGTTCGCAGCTGGGGGGAGTCCGGGGG  
GGGACCCCGAGTGGGGTCAGAGTCCCCAGGGGTCTGCGAGGGAGAGAGG  
AGTGAGAGGGATGAAGGGGTCTGAGGGCATGGGGTTGGGAGGGGTGTGGG  
GCGTAATGGGGTCATTTTGGGGTTAATGGGGACACTGGGGACAGTTTGGG  
AGCTATTGGGGCTAATGGGGTCTCTGGGGGACATGGAGGGGACATTGGGG  
ACATTTGGGGTGTAAT

FIGURE 10  
SUITE 60

987110  
E52REV.txt

TGGCTGATGGGCTGTGTCTTATGAGCGCAAAACACCACAATGGGCAGAAA  
AACCTTCCTCCAGAGGACCAACCCCATCTCTATGGCTTCTTTGCACCTGG  
CCTTGCCCCAAATTTGGGTTATTTTTGAGAAAAAATGGGCCATTTCTCTG  
CTGGTTGTCCAAGCAGCAAGAGATGCTGGCATGAGTCTCACCAAGCCAAG  
AGGTCTGTGGGACCAAGAGAACTCTTTCTCTCCCATTAATGATGAGTAA  
CTCCACCTTTGGGCACTCTTAAGGTGAAAATCCTCAAAATCTGCAATTTT  
GAAGGCGCAGCTCCACATTTCTCATCCCCTTTGTTCTGTCCATGGCAGT  
GCAGGCATTCCAGCCCCATCCCCAGCCCTGTGCTCAGTGTCCCTTCGACT  
GGATTGGATTGAGAGGAAAATGCTACTACTTTTCAGAGGATGAGAGCAAT  
TGGACGAGCAGCCAGAACAACTGCTCTGCTCTTGGTGCTTCCTTGGCTGT  
GTTTGACAGCGCTGAGGACTTGGTGAGGGGGACACAAAAGAGCCACCAAT  
GTATTTTGTCCGCTTGAGGGCCCCCTTGGCTGCTCTTTCAGTGTTCCTTT  
CTGATTTTGGGGTGAGGAGGTGGATAATGGTTGTCTGAGGGTAGGTTGG  
GTCTACTCCTCAAAATTTCTCAAGGGATTTAAGGGAAAAAAGATGTTT  
TTTCTATGAAGTAACCACGCTGGCTTAGAGACTGTGAGCTTTGGTGATGG  
ATTGGGCAGTTTCAAGCACTGAGATTATTGGTTGAAAGGGTTCTGCAGGC  
AGTGGCATGCAGGAAATGTCCAGAGCCCCATGATCTGTTCCCTCTCCTC  
TTTTTCAGAGCTTCACAATGAGACACAAAGGCAGCTCCCCCACTGGGTT  
GGCTCTCCCCGGGAAGGCAAGAGCATCCATGGGAATGGGTGAACCGCTC  
TCCTTTGTCTCACCTGTGAGTTCCTATCCTTGTCTTGGAGGCTGCAGCTT  
CTCCAGCCCCAAATGTGGATTTCTGGACCTCGGGAGCATTCTGGAGGT  
GGCTTATGGGGTGAGGAGATGTGGGGAAGGCACTTCGCACCGCTTTGGGT  
CATAGAAGTTCATTGAGAGGCAGAAGTGGCGCAGGAAAAAGAGATTCTTA  
TTTAATCAATTATTTTGTCTGTTTGATTTACCACTGTGATTTCTCTCTC  
CCCCCCCCCAMAACCTGGGGTCTGCCTGTCCGTCTGTCTGTCCATCCA  
GGTTCAGGTGCAAGGCGATGGTCTCTGTGCATACCTGGGGGATGCCGGG  
CTCAGCTCCTCCCACTGCAGCACGCGGAGGAATTGGGTTGCACCAAACC  
CGCGTTGCAAAAACCGAGGAAGAATTCTGCATCAGCACCTGAGCGGCTC  
CCGGACCCGAACACGCGATGCAAGAGGAGGAACCCAAAGCAAAAGAGCTC  
CGCTTTCAGCTGTGCTCAGTAGCAACAGGAGGGCGGTGCGCTCCTCCAGC  
CCAGGTCCGACAGTGCCGCCTATGGGGCTGCGCGGACCGAAGCAAATCCC  
AGGCGGAGCTTCGGCTCCAAATTACATTTTTTTGCACCGTCTGACTCCTA  
ATGACCGCTAAAATCCCAATTTTGGGGGCTATCCGTGCGCTGCTTGCAAC  
GACCTTCACCCCTGCGCGATGCAGCAGCAGTTTGGGGGGCGGACGGTG  
GAAAATATCCATTTTTCACCGGTTTTTCTCCAAAGGGAAATACTGGGAAA  
GCAATCAGCCCAAAGGACCCTGAAATCGATGAATAAATCGGCAAATTATT  
TATGTTTCGTGTTTCCCTTCTGTGTCACTGCAGTGCCTTCTCCATGAAT  
TCACTTTTAACGGTGTTTTGTACAGGAAACACTTCTTCGACTCTCTCCA  
CCACTCCTATATATTCAACAGACCAATTCCTTCTGGTGATTTTATGCAAA  
AACAAAAGAGTATATTTGGTTAAAGAACCCAAACCACCTTCTTGTAAGA  
AGGGAATAGAAGAGCACAGACCGCCGCTCCCCTCCCCTGCTGCCGCACA  
ACAGACGGTCCCCGAGGATGTGCAGACAACGCGACGCGCTCTGA

FIGURE 10

SUIITE 61

99/110

E6G2N15.txt

TAGNAACTAGNGGATCCCCCGGGCTGCAGCTATGGGGGAGTGGGTGCACT  
CCTTGGCCATGGCTTTGGGTCCCGTTACTCTGGAGGAATTTCCACAGCTG  
CCCCAGGAATCTTGTACATAAAAGTGCACAGATCGATCAGAGATGTCATG  
TTCCTGACAGAAGAAATCCTGTCTCTTCTGATGTTCTCTGTGAAGAGCAT  
TGCCACGAGGGAGCTACCAGCAGGGCAAGCAGAGAAATTGAAGAAAACGA  
AAGATGGGTGAGGTACGGGATTGGGCAGGTTTCACTTTCTTTAGCAATG  
AGACGTGTCAAGCTGGCAGCTTCCCTGGGAGCCTCTCTGGTGTGGATCTC  
CGGTGGCCCTAAACCTGGTTCAGGCACTGATCAAGGAGACATTACCCGTC  
TTGGTTCATCTCGGCTCACGG

FIGURE 10

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SUITE 62

100/110  
F12FOR.txt

CGATGGTCCTCCAATGACCTCCATGGTCATCCAGTGCTCATCCCGCGGTA  
TGGCCATGGTAACCCCATGTTACCCCTGTGGTCTCACCCCAATGATGCCG  
TGGTTACCTTTTCGTTACCCCTATTCTCATCCCATATCCCCCCTTTCTGTC  
CCTCTGCCCCTTCATGATCCCCTCATGGTTAACAGACGTTTCCCTCTGCG  
ATCAGGTCATGTTACAGCACAAATTCCTCCAGGGTTCCCTTTATAGTGACC  
TCACCATTACCCAATCATGTCCCCGGTGTCCCTGAAGGGGCCCAGATTTTC  
CTCAGTGGGACCCAGATGTCTTCAGTGGGGCGGGACCTGGCCATTCCCAA  
TGTCATCCAGGTGTCCATATGGCATGGGACACAGATGTGCACATGGGATG  
GGACCCAGGTGTCCCCTGTCTCATCCAGATGCCTCCATGGGTTGGGAAAT  
GACCATCCTCGATGTACCCAGATGCCACATGTGATGGGACGTGGCCAT  
CCTTCATGGCATCCCGATGTCCAGCTTGGGATGGGATCCCAATGTCACCC  
AATGCAATCGCAGTGTACCCAGATGTCCACAAGGGATGGCACCCAGATG  
TCCCCAGGTGCCACTCATCTGCCTACCAACCCAGGACTTCCTCCCACTG  
CTCCCACTGCTCCCAAGTTTGCCCCCATTTCTCCC

FIGURE 10

SUITE 63

101/110

G2M13.txt

GATCTTCAGTGATTTTCAGTGGTCTTTGGTGGTCTTCAGTGCTCTTCGTT  
GGTCTTTGACAAAGATGCAGAGGAGCACCGCTCCCAGACGGACCCCCCGG  
GGACCCCATTTGTGCGCCATCCCCACTGGGACATGCAGCCATTGACCACAG  
CCCTCCGGCTGCGACCACCAACTGATTCTTATCCAAAGTCCACTCTTT  
GCACACTTACCTCCAATTTAGTGATAAGGATGTGGCGTGGGACCGTCCCA  
ATGGCCGCACACAAGTCCAGGTAGATGATATGGGATGACCATGAAGGGAT  
CACAGAGAGGAACACGGGGTGACCACGAGGAGCAACGAAGGAAACGCTGA  
GTGACCACGGGCAGAAAATGGTGTGACCATTAGGGGACAACGAGAGGGAA  
CAGAAGTAGTAAGGAGTGAGAATGGGGTGACAAAGAGGTGACCATGGCAT  
AACTTTGATAAGACCATTGGGTGACCGCAGGGTGATGGCCATACCATGGG  
GTGAGCACTGGATGACCATGGAGGTGATTGGAGGACCATCGGGTGGGACG  
AGGGCCCGTGGGGACACCCGTGGGGCGGTGGGACGGGGGCAGAGTGTGAGA  
AGGAGCCCCGCGGCGCAGAACTCTGCCTGGAGACGGGTGACGCCGCCCGG  
CGCCGCCCGCGCTCATTGGCCCTCCCCGCCCGGGCCCGGGCTCGCGGCTG  
GCGCGGGGTGCCGGGTCCCCCATCGTCCGGCGGCAGCAGCCATGGGGAGC  
GGGCGCGTCCCGGCGGCGGGGGCCGTGCTGGTGGCACTGCTGGCGCTGGG  
AGCCCCGCCCGGCCGCGCACGCGGCCCTCGGGTGAGCTCGGAGCCGCGG  
CGCGGGGACGGCGCTGCGTCCCCCGGAGAAACCCCCGGAGCCCTTCTG  
GCCGTGCGCAGCGCTCGGGGCTGCGGGGGGACGGAGGGCGGGGGGGGGCG  
GCGGAGCCGTGGGGGGCAGCGGGGCCGGGGAGGGGGCGGGGGGTGTGGCG  
GGGGGCGGCTGTGTGCCCTGACCGTGCCCTCTGCCCGCAGCGTTCTTCTT  
CTGCGGTGCGATATCCGAGTGCCACTACCTGAACGGCACCAGCGGGTGA  
GGTATCTGCAAAGGTACATCTACAACCGGCAGCAGTTCACGCACTTCGAC  
AGCGACTGTTGGGAAATTTGTGGCCGATTACCGCTGGGTGAGCCGCAAGC  
TGAATACTGGAACAGCAACGCCGAGCTTCTGGAGAACC GAATGAAG  
TGGACAGGTTCTGCCGGCACAACACGGGGGTGTGGAGTCCTTCACGGTG  
CAGAGGAGCGGTGAGTGCCGCGGGGCGCAGCGCGGACGGACGGGCAGGCG  
CCGCGCTCTGGCGGTGCGTCCGCAGCGCTCCCCCGTGCCCCGCAGTGGA  
GCCCCAAGGTGAGGGTCTCGGCGCTGCAGTCGGGCTCCCTGCCCCGAAACCG  
ACCGTCTGGCGTGCTACGTGACGGGCTTCTACCCGCCGGAGATCGAGGTG  
AAGTGGTTCCTGAACGGGCGGGAGGAGACGGAGCGCGTGGTGTCCACGGA  
CGTGATGCAGAACGGGGACTGGACGTACCAGGTGCTGGTGGTGTGAGAGA  
CCGTCCCGCGGCGCGGGACAGCTACGTGTGCCGGGTGGAGCACGCCAGC  
CTGCGGCAGCCCATCAGCCAGGCGTGGGGTAAGGCCCCCCGGGCCCTGCCC  
CGCCGCGGGGGGAGCGGGAGCGCGGCCCGGGCGCTGAGCCGCCGCCTTC  
GTCCCCGCAGAGCCCGCGGCGGACGCGGGCAGGAGCAAGCTGCTGACGGG  
CGTGGGGGGCTTCGTGCTGGGGCTCGTCTTCTGGCGCTGGGGCTCTTCG  
TGTTCTTGCGCGGTGAGAAAGGTGAGCGCTGGGGAGGGGGGCTGCGCCGG  
GGGGGGTCCGGAGCGGGGGG

FIGURE 10

SUITE 64

102/110  
H421.txt

GCTCTAIAACTAGTGGATCCCCCGGGCTGCAGGATTACCAGTGTCCCCAA  
CTGTTTITGCCAATCCAAGCCCTGCAAATGTACAAATATATTAAGTGGTT  
TCCTTAITAGACATCTTTATATCTCTCACCAATCATTTAACGTTAACCTT  
ACTCTGCTTTCTTCTGTGAACAGAAAACAAAATCGGAAGCCTCATATACA  
GGTGTTCAGAGGAAAATAGTAAGTGGTGATGAAACTTGGAGAACTTGTGA  
AGTGAAATATGGGAGCTACTGCCTCTGGAGGGAGGAAAATAAGGAACCAA  
TGAAAGATGCCAAGGTGAAGCAAATGAAGGACCAGCTGTTTGTGGCTAGA  
GCATACATCCCAGTATTGCTAAAATGCCTTCTCAAAGCAAGTTGACTCG  
GGATATGAAACAGAATATCCAAGAGTTTGAGCGTATTCTTAGTGAAAGTT  
CTCAAGATGCTGACCTTCCACCACAGTAAGTTCTCTCCAGTTTGGGTTTA  
ATCATTITTTGTACTGAAAGTTTAGTTCCTTACTGGAAAAGATTTTGTG  
GATTTCTAGTCACATGAATCTCTCCTAGTTTGCCTTCAGTTTGCCGGACA  
TCCCGTITTTCTAGTGGTTTTACTTGCTT

FIGURE 10  
SUITE 65

103/110

H4212.txt

TAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGATCGGA  
GGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGATCATGTAAC  
TCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACG  
AGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAATA  
TTAACTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTG  
GATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGG  
CTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGC  
GGTATCATTGCAGCACTGGGGC

FIGURE 10

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SUIITE 66

104/110

H424.txt

TCCCTAGTAACGGCCGCCAGTGTGCTGGAATTCGGCTTAGCGTGGTCGCG  
GCCGAGGTACATACCCTGCCCCGAGTGATGTCTCCAAGGTTGATTTAAGC  
AACCAGCTCCTCCCTGCCACGGCTCCAGGCTCCACATGCCTGGGTAAAGG  
CTGGGTTTGTGTTTTTGGAGACAGTGTCTTAACTATGGAGCGCTGACTGTTC  
TGGAACCTCGCTCTGTAGACCAGTCTGGCCTTGAACCTCAGTGATCCCCCTG  
ACTCTGTCTCCAGAATGTGGATTCTCCCA

FIGURE 10

SUITE 67

105/110

H4REV. txt

GGATTCTGACACCCCTCCTCCCCACCCCCAAAGGTGTTCCAGCGCCGCA  
TGGATGGGGGCACCGACTTCTGGAGGGGGTGGGAGGAGTACGTCCATGGC  
TTCGGGAACGTTTCTGGGGAGTTCTGGCTGGGTGAGGACCCCAAACTTG  
GGAAGATTGAGGTCTGGGTGGGGGGGGGAACACCCAGGGCGGAGAGGG  
CTGATGGCTGCAGGACGTGGAGTGGGATCCCTGACGGGGGTGTGGGGTGG  
GGGGTGTGGGGCAGGGGCCCCAGGTGGGTGTGTAGGGTGGGGATGATGAC  
GATGGCTGTGGGATGTGGCGCAGGGAATGCGGCGCTGCACACACTGACAG  
CTTCCGGGCCACGGAGCTGCGTGTGGACCTCTGGACGCCGTGACACAGC  
GCCTTCGCCCCGCTATCGGGATTTGCGCGTCAGTGGTCCTGAGGACAATTT  
CCGCCTTCACCTCGGGGCCTACAGTGGCACAGCTGGTGTGTGTGGGGCAG  
TGGGAGCTCCTGGGGGATATTAGGGTTAACCTTGACCCATGAGGGGGGGCT  
TTTGGGGATACCCAGATCAGGGGGGGGGGGAATCCTGGGGAGAGTAGGGG  
ATGGTCCCTTTGCCCACAGTGAGGGGGCCTTGCCCTGCAGAGGTCTTTAA  
GATCGTTGACCTGTTGGGATCTCTTGGGGATCTCCAGACTGCAGGGAGCC  
CCGGGGGTCTTGGGGGGCTCTGCCCCACAGGGTGGTCTCTGTGAGGGTG  
TGGGGGTACCTGGGGGGTCTGCGGCTCATCCTTGGGGCTCTGAATGCTAT  
GTGGGTGTCTGGAAGGCTCTCTTTAGGGGTCCCCATAACCTTGCTGTGG  
GTCCACAGGGGATGCACTGTCCTACCATGCTGGGAGCCCCTTCTCCACG  
CGGGACCACGACCCCCGAGGCCGCCCTCGGCCCTGCGCCGTGCGCTACAC  
CGGAGCCTGGTGGTACCGCAACTGCCACTACGCCAACCTCAATGGGCGCT  
ATGGGGTGCCTACGACCACAGGCATGGCTATGGGGGTGTAAAGGGGT  
CTGTGGGGATTGTAAAGGGGTCTATGGGGGTATAAAATCAACCAATGGG  
ACAGGAGGGGGTCACCATGAGGCCATGGGGGTTTTGTGGGGTAAATGTGG  
AGGGCTACCCCCCCCCAAGGTCCTTTTAGCCCCATGTCTCTCTGTATG  
AATATGGAGCCCTACAGGAGCTGTGGAAGCTGGAACACAAGCTGGAACAG  
GGAGGGGATACCTTGGGGCCCCCTGTAAGGCCTATATGTGTCTATAGGGT  
CACTGTAGGTTGTTTAAGGGCATGACCAAGTCCCCCTTCCTTTCTGCAGG  
GCATCAACTGGTACCCCTGGAAGGGCTTTGAGTACTCCATCCCCTTCACA  
GAGATGAAGCTGCGACCGCAGCGTGAAGTGAAGAGCTAGAAAGGTGCTGG  
GTGCGAGTGGAGCCTTTATGGGGTCAATAAAGCTGCGAGTAGCCAGTGCT  
GACCCATGTATCCACACACTGGGCTCAGGAGCTATGGGGGTGGGCAGGG  
CGTGAGGGCGCACGCGGAACGGGGCACAGCGCAGCACGGTGCCAGCAGTGA  
CCCCTAAGTGGGGCAGAGCCCCATCAGACGGTGGCTCCAGGCGGAATCGC  
TGTAGGATGTGCCCCAAAAACACAAAGAGCTCTGCCCCGAGCCAGCGCCTC  
CCCCACACAGCAGCGTGCCCCACAACAAAGGGCAGCAGCGCTCGCCATG  
GAGCCCCCGGCTGCAGGAACCGCTCTGTGGGGCAGAACAGAGATCAGAGT  
GGGTGTAGGGGGGAGGAACCCAGCCTGGGGTTCAAAGCCCACATCTATGGG  
GTGGACCCACACATACCGGGCAGGAACCTCATCAGGACGGTCCCAAATCTT  
GGGGTCGTGGTGCGCAGCAAAGAGGTTTTGGGATAACGATGGATCCCGCAG  
GCACTGGGATTCCCGCAATGCTGGGAAGGGACAGAATGCTGATAGGATGG  
ACTGGGAGAGCCTACAGAGGCCAAGTGGGACATACTGGGACCTGCTGAGC  
TATCCTAGAGCTTACTGGGTGCTTGATGAGTTCTACTGGGACCGACCTAC  
TGGTAGGTCCATGCTGGTCTGTAGTGGTCCACACTATTACAGACTGGTCT  
ACAATGGTTTATTCTAGTGAAAATACTGACACGCAGTGGTGCACGGTTC  
TGCTCGCAGACATGTGGCCCGCACTGGTTGGTACTGATCCCCACTGGTCT  
GTATGGCCCCATACAGCCCGTACTGGTGTACTGGCTGTACCTGGAGTG  
GCGCCGGGCACAGTGGGGCAGCGCAGGGGGCACGGGGGGTTCGAGGCGGA  
GGGTCTCGGTGACAGTGGCACGGAGCAGTGGCAGTCCCCCATATCCCCT  
GGCTTTGGGGTCCCCCTGGGGCCAGCACCTGGCGCAGCTCTGCACGTAC  
CTGGTCTGACCTGGGACAGGGGACACGTGTCAAAGCACGTCACCAAGT  
GCCACATCGGGTCACTTGTGGGGTGGCCCTCCCCTGCACGGGGACACAGG  
CAGCAGCGTGACACGGAAGTGACATGAGCGTGACATTTTGGCACTGGCCA  
CAGTGCAGGGGACACAGGGGGCATTATGCACACAGGGTTATGGACATGGA  
TGTGACATGCATATGGGGAAGTGCAGTGGAGCTATGGGAGGGGACAGCCA  
GGACATGGGTGGGGAGGCCGAATGGGACCTGGGGAGGAAGCAAGTGTGGG

FIGURE 10

SUITE 68

FEUILLE DE REMPLACEMENT (RÈGLE 26)

TGTGACACAGATGTGATGTGGTGTACCTGGGGGTGGTGCAGCAGGAAGG  
CCACAGCCCATAGCAGAGCCACTGCCGTCGTTTCGGTGCCACCGATGAAG  
AGATCCACGAGGGCCATGTGCAGGCGGTCCCCCCCCAGCGGCCCATAGG  
GACAGTGGGGTCCCCCCCCAGCAGTGCTCCAGCACTGTGTCCCTGGGGG  
GAGACGCACAGCCCTGTGGGGACACACGTGTTACCCCTGGGGCCCTGTC  
CCCCCCTGTACCTGTGTCCCCACGTTCACCACTGGTGCCATCGGATCT  
GGGACTCCACAAAGGCATCGCGGCGCTCCACCAGGCGCAGCAGCTCCCGC  
AGCCCTGCGTTGGGCAGCACCTGTGGGGCACAGGGACCCCCCCCAGTGCT  
CCACAGAGCACCCTGGACCCATAGGGACCCCATATTCCCTCCCAGCCCC  
ATATATAACCCCCCCCCAGGGCGATATAGCCCATCCTTAGTATAGACCCC  
TGCAGCCCCATATGGACCTATACCACCTCCTCTTATGACTATATCCCGCA  
GCCCCACGCCGATCCTATATGCCCTGTAGGGCCCTGTAGGGCTCACCTT  
AGTGAAGGCAGCACATCCAGTGCCCGCACACTGGCCCGGCCCCACACCTC  
CAGCACTTCCACCACACAGCGCGTGAAGGAGCGCACCTCCGCCTCGGGGG  
GCATCTGTGGGGCACAGGCTTGGGGTACCCCGAGAGAGACTCCTGAGTC  
CCCCCAGAGACTCCTGAACCCAAAGAGGTACCGTGGTCATTTGGATCCCT  
CTAGAGGTGACTGGGTTCCCAAAGGGACACCTCAACACTTGTGTCCCCTT  
CAGGGGCACCTGGATATCTGGGACTCCAAGTGGCACCTGAGCATTGGGA  
CCCACCCTCCTTGGACACCTGGGTACCCCAAGGACACCTGGGACCCCTT  
CAAGTGGCACGTGGACATCTGAGCCCCCTGTAGTGGCACTTGAGTCCCCC  
TGCTCCCCCAGGTGACACCCAGACCCTGCAGCCCCCTCGATATCCCCACCA  
GGTCCCCGAAGGCAAGGCGGCAGATGGTGCTGCAGGTGTGGAACGTGAAC  
GCCTCAAAGAGGTCCACTGGGGCAGCCCCATAAGAGCTCAACTCCTGTGG  
GGTGAGAAATGGGGTCACTGAGCGGGTGCGGGTGCCCCACAAGGGGGGT  
GGGGTGAGTCAAGGGGACGGGCAGCACAGCCCTGGGGCTGATGGGGTCCA  
CCTGGGGTTGGAGGGCCCTGTGTTGGGGTGCTCACCTGGCACAGCGCCCA  
GCCCTGCAGCTCCAGGAGGGGCTCCAGGTGCCTCACAGCTCGCGCCAGTG  
CTCCCCGCGTTGCCCCCGCTGCCGTGCGCACTCTGGGGATGCATCCCCC  
AGCGCCAGGTCTGCCCCCCCCGCGACACCAGGGACGCTGTGGGGTGACA  
CCCATATCACCTTGGCACCCATGTGACCTCCGAGAACCCTCAGACAGCT  
GTACGGATCCTTGGGGACACATCCAGAATCCCCCAGGCACCCACTGGGAT  
CGCTCCAGCACCCATGGGGACTGTTAGAGATCTCCTCCCCCCCCAAAAAT  
ACAACCAGACCCCTTCAGAGATCATGGGGACCCCCCAGTACCCCTCCA  
GATACCCAACAGTGACCTATAGAGACCTCCCTCCACCCAAAAGCCATGGG  
GACCCCTCAGGCCCCCCCCCAGACACCAATTAGTACCCCCCAGAACCCT  
TCAGAAACCTACAAGGACCCACCAAGAACCCTCAGATACCCATAGAGAT  
CTTTACAGACCTCCTCCTGGGACCTCCCCAGGAGCACAAATCCCAAAGA  
ACCCCTTGAAGATTACAGGGACCCCTCTGACTACCCCAAACCCT  
CATGGGGACCTCCCAACCCCTACAGCCCCCCTACCCAGGTAAGTGTGG  
GGGCGTCCACGAAGTCCCCCAGCGCCGTGCCAGTGCCCTACGGATGGC  
TGCTGCAGAGCTCAGCACCACCACCTCTGGGGGGGTGGGGGGGGAGGGGC  
AAAAAATGAGTGAGTTGGAAGGAAGGGACCCCATGGGGACCCCAAAAACC  
AGGGAGAGGGGAGAGGTGAGGGGTGCCAGAACGGAGTTGGGGGGGGGGGG  
GGGAGGGATCCCAAATTATTTTTTGGGGGGGGGGAGTAGAATGAGAGGAC  
AAATTTGAAGGGGAGCAGAAGGGAATTGGGGGACAGTATGTGGGGTTCC  
TCCATCCTCTCAATGGGTAATTCTGGGGAGCCTGTGAAGTTGAGGGTCTT  
AAAGGGGAAGGCTCAAGGTCCCAAGGAGGGAAGGGTTATGGGGAAAAGG  
GGGTAATGGTGGTCCCAAGGGGTATCAGGGGGATGGGGGGGGGGGGGGGT  
CATGAAGGTGCCGCCCTACTCACCACACCCCCCAAGCGCAGGCATAAG  
GGGTCCCCGTAGGTCCGGGCAAGGATGTGGAGGTGCCGTGGCCCCCTGG  
GTGCAGGAGGTGCAGGGCCCCCCCCACGGTGCTCCCCCGCCTGGCTG  
ACCCCCCCCAGATCAGAGCCAGGAGAAGTAGCAGCAGAAGTATCGTCACC  
GCCATTGTTCTGTGGGGTGGGGGGCCCCAGCTCTGCCCTATAACACCTT  
ATGAGGAGGAGGTACCCCAAAAGCTCCACCCCCCACATCCAAACCCTC  
CTACCAGAAGAGGGGCATTGGGTTCACTCCCTAAAATTATTGTGTGCC

FEUILLE DE REMPLACEMENT (REGLE 26)

FIGURE 10

SUITE 69

107/110  
H4REV.txt

ACCCCCCTCTTCAAGTCATTATAAACTTTACAGGGGTGTCCTCATAAAAA  
TACAGGAGTGTGTCCCCCACAAAGTGCTCCCAGAACCATCGGGTGCCCA  
TCCCACAAGAAAATCTCTCAAACCTCCCATTTGTGTGCCCCCAACCAACAA  
AGATTCTCTCAAACCTCCCCCCCCCGCCCTCTACCCATATATCCTCCCAAGC  
GCTCCCCACCCCTCCGCACACCACCTCCCCAAATCCTCCCCCATTACCAT  
AATCCCCCCCCACCCAGCAGCAGAACCCCATCACCGCTCTGTGCGTCTGT  
GTGTGTGAGTAGGGGACGGGGTGTATTGAGGGGAGGGGGAGGGGGGA  
GAGCGCTCAGAACCCCTCCCCCTGCAGCCCCCGCAGGCGCCGTGCCAGCT  
GCAGGTCTTTGGGGTACAGTGTGACGCGGCGCGCATGCAGCGAGCACAGG  
TAGGCGTCTCTCCAGCAGGTGCACCAGGAATGCCTCCGCCGCTGTGGGAC  
CCCGGCGTGGGCGTCCCCACAAAGCAGGGGGGGAGTCAATTCCCACCCCC  
AGGCCACCCACAAATGCCAATCCTCCAAAATAATCCCTGGAACAACCCC  
AAAAAAACCCCTACCCCAACCCCTCCCCAAAACCATAACCTCAATAA  
CTCCACACCTCAAAAACCTCCAACCCCTCCAAAACAACCCCAACCCCGA  
AACACCTCACCCCAAGACCCCTTCCCAAGCCCCAAAGAGACCCCAAGG  
CACAAGGGGTACCCCAAAATCCACTTCCCCCTTCCCCCAAAAAGCCCTT  
TTGGGCACCTAGAGAGCTCCCCAGCACCACCAAGGGTCCCCACGGTAT  
GGGGTACCCTAAAACACCCCCCAACCCCAACCCACGGGAACCTCCAAAAC  
AAAGCTACCCCTCCCCCCCCCCCCCAAAAAATAAACCCATAGGGCCCC  
CCACCTCCTGTAGGGCCAATAGGGCCATAGCCTGCCACCTGTAGTCCACG  
CCCCGTGTGAAGAGCAAGCAGATCTCCCGCACCTGGGGGGGGACAGGGGG  
GCATGGGGACACTGGGGGGACATGGGGGGGGGGGGGGAGGGGGGGGGGG  
GGGAGGGGGCATGAGGACATTGAGGAGAGGGAACACGAGGGTGGCACTGCA  
TCATGGGAGGTGACGAGGGGGTGGGGGGGGCTCAAGGACATGGAGGGGGA  
CACTCA

FIGURE 10

SUITE 70

108/110  
H6FOR.txt

TTGCTGCCTGCAGGTCGATCTAGTGGATCCGCCGCGACAGCGAACAGGCC  
AGCCAGCTGGTGCAGTATCTTCCACTTTTTTCCGCAAAAACCTTAAAGCG  
GCCTTCGGAGTTTGTTACTCTCGCCGACGAAATTGAACATGTGAATGCTT  
ATCTGCAAATTGAAAAGGCGCGCTTCCAGTCGCGGTTGCAGGTCAACATT  
GCTATTCGCAAGAATTATCCCAGCAGCAATTGCCCCGCGTTTACCCTGCA  
ACCC

FIGURE 10

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SUITE 71

109/110

Conti205.txt

[illegible]

FIGURE 10

**SUITE 72**

FEUILLE DE REMPLACEMENT (RÈGLE 26)

110/110

Conti205.txt

CATCCCACCCCTACAAGTTCAACCTTTACGGGGTGTGGGGGCAGACACGT  
CTGGGCCCCATCTCCACTGACACCATCACAGGTGAGGGCCCCTGCCTGCT  
GCTGTGCTCTGGGCCTTGTGCTTGGCACGTGGCAGGAGCTGTGCGATGGG  
CTGTGCTGGTGGCGGGGATCTGACTGGAAATGGAAACGTTCTGTGGCAAA  
GAGTGGGAATGTAGGAAGGGGGTGGGAGCATGCAGGGTTGGTGGAGCAGG  
GGGTAGTGATCAGTGGTGAGGATTTGGTTTCTTGGTCTGAAATATGGATG  
GAAGCTTTGTTGGGAGAGTGAATGACTTTTCAGTGAGGACAGGTGGATGC  
TTGGGTGAATGCTTGGTAAGTTGTTGAACGCCTGGATAGTTGGATGGGTG  
GACATGAACTTTGTATTACAGCTGCAGCTCCAGCACAGAAGGAACCGCCA  
TCCCAACCACGCCTGGGTGAGCTGACGGCCTCCACGTGAGCCCCGACTC  
CGTCCAGCTGGAATGGAGCGTCCCCGAGGGCTCCTTTGACTCCTTCACGG  
TGCAGTACAAGGATGCACAAGGCCAGCCACAGGTGGTGCCCGTGGACGGT  
GGGTTGCGCACAGTGACCGTGCCCGGGCTGTGCGCGTCCCGCCGCTACAA  
GTTCAACCTGTATGGGGTGTGGGGGCGGAAGCGTCTGGGCCCCATGTCCA  
CTGATGCTGTACAGGTGAGCATGCTGTTGTGCTGCATCCATGTCTTTTG  
GCTGACGGTTGTGTTGGCATATGGTAGGAACCTTTCAGGCCCCACTCCTGG  
TTACTGTGGTCTTAATAGAGAGGGAAGTTCTTTCTGTTCTTGACGTGGG  
TAGCCTGGAGAGATGGGAGTATGGAAGATGAGAGGAAGAACGGAATAAGG  
AATGATTGATAATTATTGCAGAACGGATGGAAGGGAGGATGGATGGGCGG  
TGCATGGGTACATTGGTGCTTATAGCAGAGCTGGACGGCTGGTTGTACGT  
TGGTTTGGTTGTTGAAGAGATGAAGAGTTGGATGGGCGTGTGCTTTCCT  
GTGAATTCTCCCCCTGTCTTGCAGCTCCGGCACAGAAGGAACCACTTC  
CCAGCCACTCTTGGGTGAGCTGACAGCGTCCACGTGCGCCCCGACTCCG  
TCCAGCTGGAATGGAGCGTCCCCGAGGGCTCCTTTGACTCCTTCACGGTG  
CAGTACAAGGATGCACAAGGCCAGCCACAGGTGGTGCCCGTGGACGGTGG  
GTTGCGCACAGTGACCGTGCCCGGGCTGTGCGCGTCCCGCCGCTACAAGT  
TCAACCTGTATGGGGTGTGGGGGCGGAAGCGTCTGGGCCCCATGTCCACT  
GATGCTGTACAGGTGAGGGCAGGAATTGGCACCTGGTGGGCTCTGGGTT  
TGCAGCAGGTAGAAATGTAAACGTGGCCTGCGCTGGGGATCTTGTTTTCC  
CCTGGCAATGGGAACAGCTGTTGGGTGCCTTTTTTGGGAAGGATCCCTTA  
ATCGCAGCATGAAGTATGAATGGACCAATTGGGTGTGGGTGGAGTGATGG  
CTGTTGAGATGAGTTGGTGGCTGCTTGAGTAATTGTCTGTTGGAATGGAT  
GGACAGATATGTGAAGGAGTGAAAGGATGGATAAAGTAATTTAGGAATCG  
GTGGATGAAGAATGGGTAGGTAGACCCTTGGTGAAGTGGTAGAATGGAAG  
GATTTATGAACAGATATGAGTTAATTCTTGCATCGAAGTAGGTGTAAGTG  
TCTATTAGCCTGTTGCACTGAACATGCAGTTGCATAGACAAATGAGTGGG  
GAGAAGTACGGAGTAAATCCCTGCATGAATGGTAGGACAGAAACCTGAAT  
GCCTGGATGCTGGCAGTGTGAAGAATGGCACTTGGGATAGATGGTTTCGAG  
TATGGGGTAGATTAAAGATGGATGGAAAAGAGGAACAGAGAGAGGGTGA  
TTGGATGAATGGATGGATGGTTGGATGTGACTGATTGACAGGTACCAAGC  
TTTTTTCCTGCACTGTGCCTTCTGTGCTGCAGGACTATGGTCATAGCTGT  
TTCTGTGTGAAATGTTATCCGCTCACAATCCACACAACATCGA

FIGURE 10

SUIITE 73

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR 98/02501

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>GUILLEMOT F. ET AL.,: "Physical linkage of a guanine nucleotide-binding protein-related gene to the chicken major histocompatibility complex"</p> <p>PROC. NATL. ACAD. SCI. USA, vol. 86, - June 1989 pages 4594-4598, XP002074404</p> <p>See the whole document , esp. discussion</p> <p style="text-align: center;">--- -/--</p>	1

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

### \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

20 April 1999

Date of mailing of the international search report

03/05/1999

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 65t epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Müller, F

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR 98/02501

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	<p>MILLER M. M. ET AL.,: "Regions of homology shared by Rftp-Y and major histocompatibility B complex genes"</p> <p>IMMUNOGENETICS, vol. 39, - 1994 pages 71-73, XP002074406</p> <p>see the whole document</p>	1-10
Y	<p>WAKENELL P. S. ET AL.,: "Association between the Rfp-Y haplotype and the incidence of Marek's disease in chicken"</p> <p>IMMUNOGENETICS, vol. 44, - 1996 pages 242-245, XP002074407</p> <p>see the whole document</p>	1-10
X	<p>BERNOT A. ET AL.,: "Linkage of a new member of the lectin supergene family to chicken MHC genes"</p> <p>IMMUNOGENETICS, vol. 39, - 1994 pages 221-229, XP002100550</p> <p>See the whole document , esp. p.221, col. 1; p.222 col.1</p>	7-10
X	<p>ZOOROB R. ET AL.,: "Chicken major histocompatibility complex class II B genes: analysis of interallelic and interlocus sequence variance"</p> <p>EUR. J. IMMUNOL., vol. 23, - 1993 pages 1139-1145, XP002074408</p> <p>see the whole document</p>	7-10
A	<p>VALLEJO R.L. ET AL.,: "Non-association between Rfp-Y major histocompatibility complex-like genes and susceptibility to Marek's disease virus induced tumours in 6.3x7.2 intercross chickens"</p> <p>ANIMAL GENETICS, vol. 28, - 5 October 1997 pages 331-337, XP002074409</p> <p>see the whole document</p>	

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR 98/02501

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KAUFMAN J. ET AL.,: "Different features of the MHC class I heterodimer have evolved at different rates"</p> <p>J. IMMUNOLOGY, vol. 148, - 1 March 1992 pages 1532-1546, XP002074410 see the whole document -----</p>	

# RAPPORT DE RECHERCHE INTERNATIONALE

Deman internationale No

PCT/FR 98/02501

<b>A. CLASSEMENT DE L'OBJET DE LA DEMANDE</b> CIB 6 C12Q1/68				
Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB				
<b>B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE</b> Documentation minimale consultée (système de classification suivi des symboles de classement) CIB 6 C12Q				
Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche				
Base de données électronique consultée au cours de la recherche internationale (nom de la base de données, et si réalisable, termes de recherche utilisés)				
<b>C. DOCUMENTS CONSIDERES COMME PERTINENTS</b>				
Catégorie	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées		
X	GUILLEMOT F. ET AL.,: "Physical linkage of a guanine nucleotide-binding protein-related gene to the chicken major histocompatibility complex" PROC. NATL. ACAD. SCI. USA, vol. 86, - juin 1989 pages 4594-4598, XP002074404 le document en entier, esp. discussion --- -/--	1		
<input checked="" type="checkbox"/> Voir la suite du cadre C pour la fin de la liste des documents <input type="checkbox"/> Les documents de familles de brevets sont indiqués en annexe				
* Catégories spéciales de documents cités:				
<table border="0"> <tr> <td style="vertical-align: top;"> <p>"A" document définissant l'état général de la technique, non considéré comme particulièrement pertinent</p> <p>"E" document antérieur, mais publié à la date de dépôt international ou après cette date</p> <p>"L" document pouvant jeter un doute sur une revendication de priorité ou cité pour déterminer la date de publication d'une autre citation ou pour une raison spéciale (telle qu'indiquée)</p> <p>"O" document se référant à une divulgation orale, à un usage, à une exposition ou tous autres moyens</p> <p>"P" document publié avant la date de dépôt international, mais postérieurement à la date de priorité revendiquée</p> </td> <td style="vertical-align: top;"> <p>"T" document ultérieur publié après la date de dépôt international ou la date de priorité et n'appartenant pas à l'état de la technique pertinent, mais cité pour comprendre le principe ou la théorie constituant la base de l'invention</p> <p>"X" document particulièrement pertinent; l'invention revendiquée ne peut être considérée comme nouvelle ou comme impliquant une activité inventive par rapport au document considéré isolément</p> <p>"Y" document particulièrement pertinent; l'invention revendiquée ne peut être considérée comme impliquant une activité inventive lorsque le document est associé à un ou plusieurs autres documents de même nature, cette combinaison étant évidente pour une personne du métier</p> <p>"&amp;" document qui fait partie de la même famille de brevets</p> </td> </tr> </table>			<p>"A" document définissant l'état général de la technique, non considéré comme particulièrement pertinent</p> <p>"E" document antérieur, mais publié à la date de dépôt international ou après cette date</p> <p>"L" document pouvant jeter un doute sur une revendication de priorité ou cité pour déterminer la date de publication d'une autre citation ou pour une raison spéciale (telle qu'indiquée)</p> <p>"O" document se référant à une divulgation orale, à un usage, à une exposition ou tous autres moyens</p> <p>"P" document publié avant la date de dépôt international, mais postérieurement à la date de priorité revendiquée</p>	<p>"T" document ultérieur publié après la date de dépôt international ou la date de priorité et n'appartenant pas à l'état de la technique pertinent, mais cité pour comprendre le principe ou la théorie constituant la base de l'invention</p> <p>"X" document particulièrement pertinent; l'invention revendiquée ne peut être considérée comme nouvelle ou comme impliquant une activité inventive par rapport au document considéré isolément</p> <p>"Y" document particulièrement pertinent; l'invention revendiquée ne peut être considérée comme impliquant une activité inventive lorsque le document est associé à un ou plusieurs autres documents de même nature, cette combinaison étant évidente pour une personne du métier</p> <p>"&amp;" document qui fait partie de la même famille de brevets</p>
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Date à laquelle la recherche internationale a été effectivement achevée 20 avril 1999		Date d'expédition du présent rapport de recherche internationale 03/05/1999		
Nom et adresse postale de l'administration chargée de la recherche internationale Office Européen des Brevets, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Fonctionnaire autorisé Müller, F		

# RAPPORT DE RECHERCHE INTERNATIONALE

Demande internationale No  
PCT/FR 98/02501

C.(suite) DOCUMENTS CONSIDERES COMME PERTINENTS		
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X	<p>GUILLEMOT F. ET AL.,: "A molecular map of the chicken major histocompatibility complex: the class II beta genes are closely linked to the class I genes and the nucleolar organizer" THE EMBO JOURNAL, vol. 7, no. 9, - 1988 pages 2775-2785, XP002074405 le document en entier, esp. figure 1 et page 2783, 2. colonne</p>	1
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